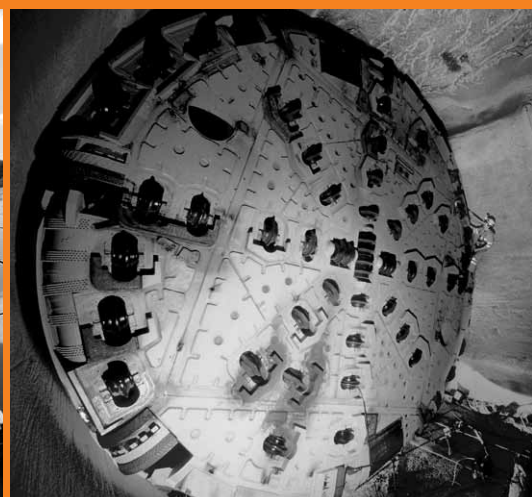


THE WORLD OF LAPP

Asia Pacific Catalogue 2013



LAPP GROUP



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ÖLFLEX® **Power- and control cables**

The world's first brand cable is available in the most varied of versions to match maximum requirements.

Key features: Oil-resistant, flexible and available to match almost any requirement or environmental condition – also free of halogens.

Fields of application: Multipurpose. Special variants are more and more in demand in the area of renewable energies.

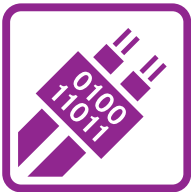


EPIC® **Industrial connectors**

The brand for strong and reliable connections.

Key features: Robust square and circular connectors. Flexible system consisting of housings, inserts, contacts and accessories – for every requirement, the tailor-made solution. Similarly, EPIC® SOLAR plugs for photovoltaics are also part of the extensive product range.

Fields of application: Mechanical and systems engineering, drive technology, Automation.



UNITRONIC® **Data communication systems**

The ideal brand for fast, trend-setting and reliable data transfer.

Key features: UNITRONIC® are not only data lines, but also bus lines, which together with active sensor/actuator modules or gateways provide a perfect system for automation.

Fields of application: Measurement, control, regulation, bus or LAN networks.



SKINTOP® **Cable glands**

The brand for multipurpose cable entries in line with the following: quickly fastened, centred and hermetically sealed.

Key features: Large clamping areas, optimum strain reliefs, the most diverse of versions such as SKINTOP® CLICK, COLD or CUBE.

Fields of application: Everywhere, where cables must be fastened reliably and quickly.



ETHERLINE® **Data communication systems for ETHERNET-Technology**

The brands for network solutions, safety systems and firewalls in the industrial networking sector.

Key features: System solutions consisting hardware, software, consulting, network design and support.

Fields of application: Factory automation, Renewable Energy, Building technology, Structured cabling.



SILVYN® **Protective cable conduit- and cable carrier systems**

The brand for all-round cable protection.

Key features: The product range includes SILVYN® cable protection hoses for perfect protection against mechanical and chemical loads, along with SILVYN® CHAIN energy supply chains for highly-dynamic applications.

Fields of application: Everywhere that cables have to be additionally protected or routed.



HITRONIC® **Optical transmission systems**

The brand for split-second, fault-free, intercept-free data transport.

Key features: The HITRONIC® product range includes fibre optic cables in the most varied of versions, along with suitable accessories such as splice boxes, wall distributors or couplings.

Fields of application: Office and industrial sector, Renewable Energy.

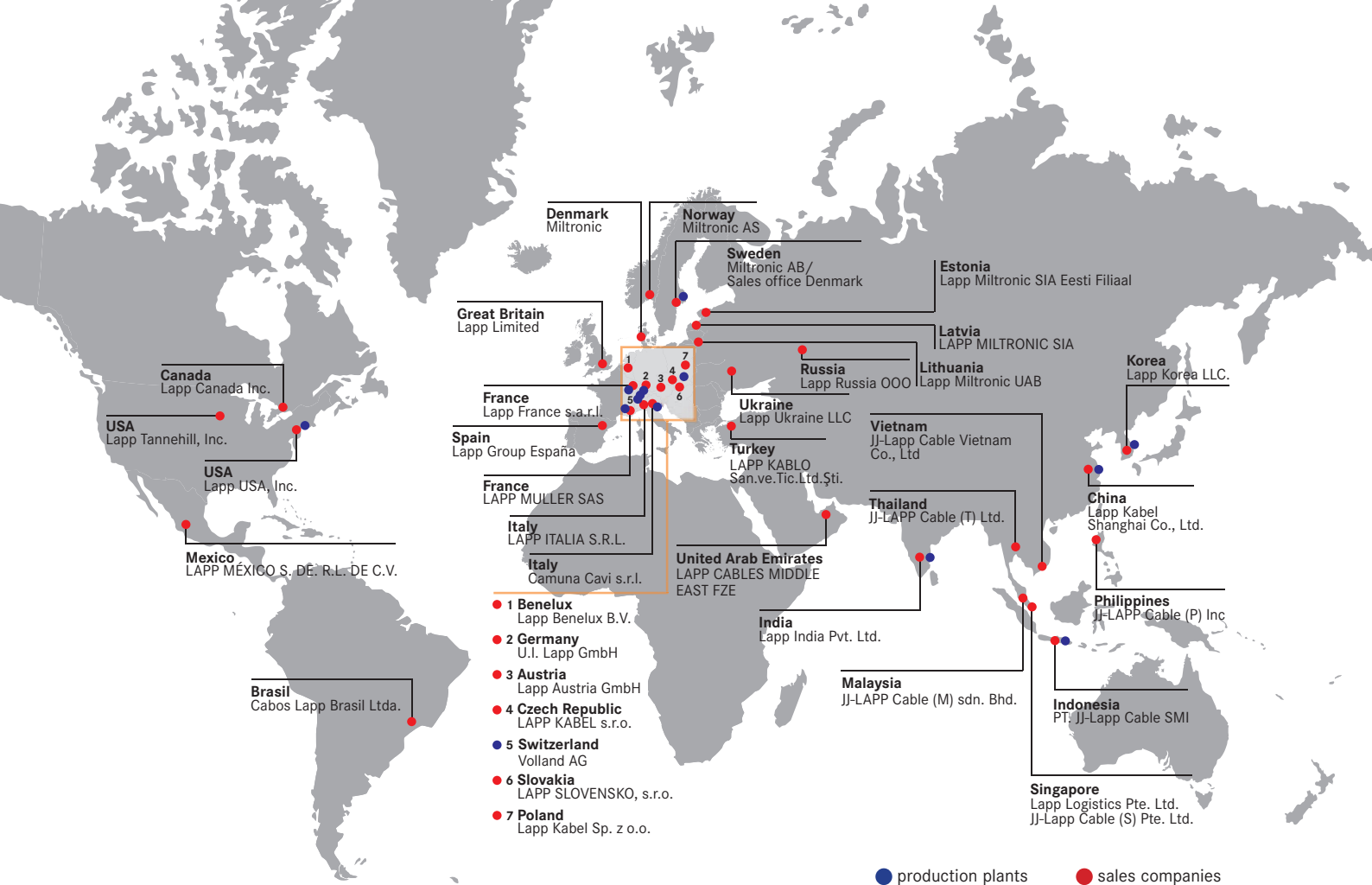


FLEXIMARK® **Marking systems**

The brand for permanent, clearly-arranged cable markings.

Key features: Comprehensive range – from manual labelling solutions onto digital identification. Withstands high chemical, thermal and mechanical loads.

Fields of application: All cable, single cores, control cabinets.



At home in Stuttgart, but known all over the world

The World of Lapp is based in Stuttgart. This is where it all started for our company, which was founded in 1959 as U.I. Lapp KG (now U.I. Lapp GmbH). From its headquarters in Stuttgart we have determinedly evolved to become a global player – with currently 17 production plants in Europe, Asia and America, 41 sales companies, more than 100 sales partners and 3,150 employees. The larger Lapp companies such as Russia, India, China, Canada and Mexico have their own warehouses. The others are promptly supplied through our high-performance logistics centres. At our Lapp Centres we are also strongly committed to enhancing the knowledge of our employees and customers. After all, knowledge is the ink with which the future is written down.

One of our most successful “products” is that of proximity to our customers. On the one hand, we practice intensive dialogue with designers and planners, manufacturers and users. This enables us to identify new requirements and trends at a much earlier stage, to quickly provide you with suitable solutions. Innovation leadership put into active practice.

On the other hand, proximity to our customers really means something to us: our presence extends all round the globe. As a reliable partner on a local basis we support our customers in exploiting markets by providing them with short delivery times and low logistics costs.

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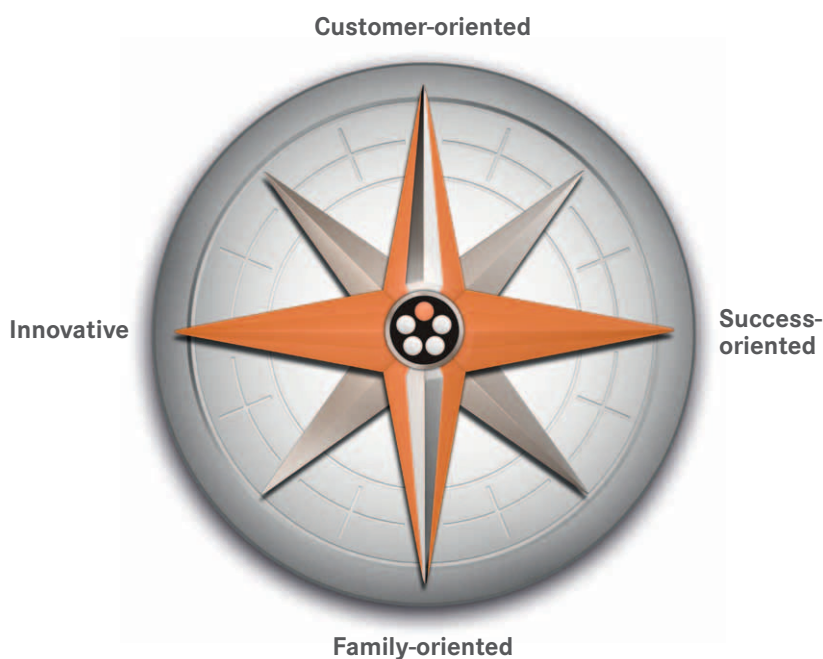
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Our guiding principles



Customer-oriented

We strive to make our customers successful in their markets.

We work together reliably with our partners in a spirit of trust.

- We take each existing and potential customer serious and treat one another with respect
- We guarantee our customers worldwide security of supply through international manufacturing locations and local stocking of Lapp brand-name products
- We are there for our customers all over the world with our competent staff
- We find quick, flexible and simple solutions for our customers
- We provide our customers a competitive price-performance ratio
- We work together with our partners on a long-term basis and grow with them
- We complete our range of skills with strong partners
- We strengthen our global growth with an international network of partners



Success-oriented

Success orientation is important to us in order to secure our independence and our profitable growth.

- Our achievement-oriented organisation inspires customers and other stakeholders
- Our organisation is versatile and adapts to new challenges
- Our organisation has transparent structures which are aligned with our processes
- We encourage team-oriented decision making
- We remain conscious of our risks while driving our growth
- We are cost and result conscious
- We orient ourselves to mutually agreed targets and communicate these
- Our decisions are sustainable and long-term oriented

Family-oriented

Long-term orientation, warmth and the familiar atmosphere of our family-owned and operated company stand against coldness and anonymity.

- Our corporate culture is characterised by treating one another with respect
- We promote personal responsibility and initiative
- We communicate openly and transparently
- We work together toward our goal in a spirit of trust
- We reflect our thoughts and actions constructively
- We secure our future through actively training and developing our staff
- We respect human rights, values and standards in all cultures. We are committed to social responsibility
- The shareholders identify themselves with the company. Lapp remains a family-owned enterprise

Innovative

For us, innovation means future-oriented solutions for our customers.

- We continuously develop our products, system solutions and services
- We set standards with our brand-name products in terms of safety, quality and functionality
- We are always striving towards improvements in methods, processes and technologies
- We manufacture our innovative brand-name products in our own, flexible plants
- We pledge ourselves to ensure safety, the well-being of our employees, the protection of our environment and the conservation of resources when manufacturing our products

International Certificates

Certification – Why?

Certifications prove the compliance regarding certain standards for products, services and related manufacturing-processes.

Our company

- As a basis of quality management, certification in acc. with DIN EN ISO 9001:2000.
- To prove fulfillment of environmental standards, certification in acc. with ISO 14001:2004

That means

- Inspection and assessment of products and the related manufacturing-processes by independent and accredited authorities.
- Prevention of possible risks for health, life, property and environment.
- Further evidence for customers, hence high market-acceptance and facilitates international market-activities.
- ...to foster environmental awareness and to provide legal security.

And what is about CE?

The CE-Marking serves technical harmonizing and the reduction of technical trade barriers.

The CE-marking is kind of a “technical passport” for the product and is applied by the manufacturer as a self-dependent indication, that relevant national and international standards are fulfilled. It serves also to protect consumers health and safety.

Are there any CE-Certificates?

No! – but Declarations of Conformity. Declarations of Conformity belong to the as usual confidential technical documentation reg. product and production and is submitted to the authorities on request to prove fulfillment of techn. standards and european directives.

Important international standards:

- The Low-voltage-directive for electrical equipment with a rated voltage 50 – 1000 VAC or 75 – 1500 VDC.
- The so called ATEX-Directive

Do all Lapp-Products carry a CE-Marking?

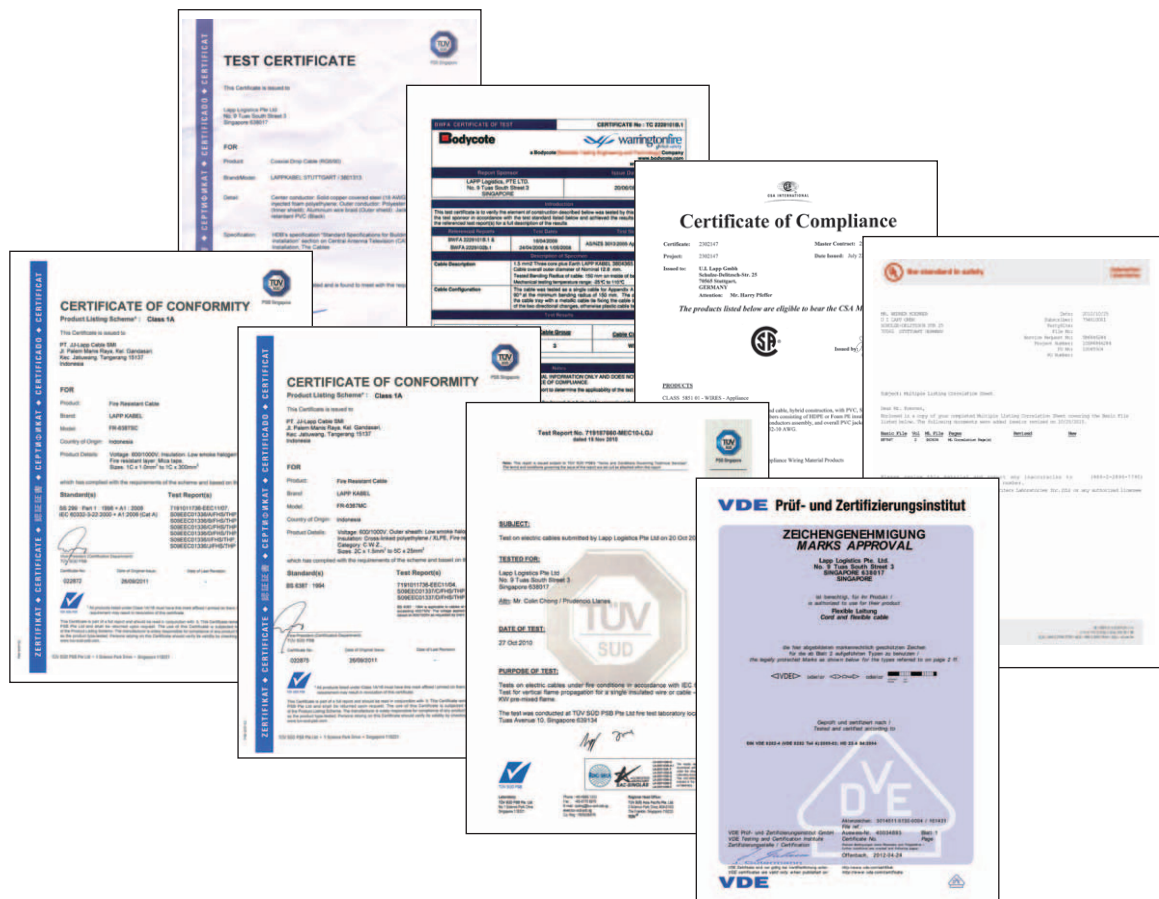
No! e.g. Data cables with their rated voltage lower than the range given by the Low-voltage-directive do not carry the CE-marking.

Product-Certifications
for our international clientel

Confirmation from independent accredited authorities reg. products to fulfill the requirement of one or several standards.

See typical examples below:

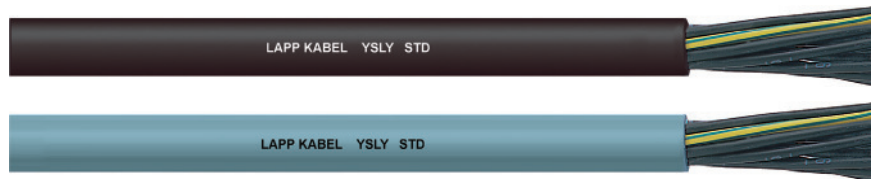
- **North America**
UL (USA), CSA (Canada)
- **Europe**
EN-Directives from EC, HAR
- **National**
VDE, TÜV, GL, PTB
- **Asia**
CCC (China)
TÜV SÜD PSB (Singapore)
Bodycote Warrington Fire (Australia)





YSLY

PVC insulated/sheathed and numbered cores



Benefits

- Space saving due to small cable diameter
- Economic solution for basic application

Application range

- Used as a connection cable for measuring, monitoring and control connections in industrial machineries, heating and air refrigeration systems, office equipment, etc.
- Dry or damp interiors under medium mechanical load conditions
- Fixed installations as well as for occasional flexing at free, non-continuously recurring movement without tensile load

Product features

- Flame-retardant acc. to IEC 60332-1-2
- UV resistant can be used outdoor
- With or without protective conductor gn/ye

Approvals (Norm references)



Design

- Fine strands of bare copper wires
- PVC core insulation
- Core twisted in layers
- PVC outer sheath, grey or black
- MOQ may apply for certain sizes



Info

- Small cable diameter
- UV-resistant

Technical data



Core identification code
Black core with white numbers



Based on
IEC 60227



Specific insulation resistance
> 20 GOhm x cm



Conductor stranding
Fine wire acc. to IEC 60228 Cl.5



Minimum bending radius
Occasional flexing: 20 x outer diameter
Fixed installation: 10 x outer diameter



Nominal voltage
U_c/U: 300/500 V



Test voltage
2000 V



Protective conductor
G = with protective conductor GN/YE
X = without protective conductor



Temperature range
Fixed installation: -20°C to +70°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
Grey					
3802002	2 X0.75	5.4	grey	14.4	50
3802003	3 G0.75	5.7	grey	21.6	59
3802004	4 G0.75	6.2	grey	28.8	71
3802005	5 G0.75	6.7	grey	36.0	86
3802007	7 G0.75	7.3	grey	50.4	104
3802010	10 G0.75	9.6	grey	72.0	156
3802012	12 G0.75	9.9	grey	86.4	178
3802015	15 G0.75	11.1	grey	108.0	231
3802016	16 G0.75	11.1	grey	115.2	239
3802018	18 G0.75	11.7	grey	129.6	254
3802021	21 G0.75	13.0	grey	151.2	301
3802025	25 G0.75	13.8	grey	180.0	351
3802041	41 G0.75	17.3	grey	295.2	560
3802052	2 X1.0	5.7	grey	19.2	58
3802053	3 G1.0	6.0	grey	28.8	70
3802054	4 G1.0	6.5	grey	38.4	84
3802055	5 G1.0	7.2	grey	48.0	101
3802057	7 G1.0	8.0	grey	67.2	132
3802062	12 G1.0	10.5	grey	115.2	214
3802066	16 G1.0	11.8	grey	153.6	272
3802068	18 G1.0	12.7	grey	172.8	303
3802075	25 G1.0	14.7	grey	240.0	410
3802102	2 X1.5	6.3	grey	28.8	71
3802103	3 G1.5	6.7	grey	43.2	87
3802104	4 G1.5	7.2	grey	57.6	106
3802105	5 G1.5	8.1	grey	72.0	133
3802107	7 G1.5	8.9	grey	100.8	171
3802108	8 G1.5	10.0	grey	115.2	218
3802109	9 G1.5	10.7	grey	129.6	256
3802112	12 G1.5	11.4	grey	172.8	285
3802114	14 G1.5	12.6	grey	201.6	329
3802118	18 G1.5	14.4	grey	259.2	429
3802121	21 G1.5	15.7	grey	302.4	479
3802125	25 G1.5	16.9	grey	360.0	560
3802153	3 G2.5	8.1	grey	72.0	135
3802154	4 G2.5	8.9	grey	96.0	166
3802155	5 G2.5	10.0	grey	120.0	208
3802162	12 G2.5	14.8	grey	288.0	438
3802157	7 G2.5	11.1	grey	168.0	269
3802168	18 G2.5	17.8	grey	432.0	661
3802543	3 G4	9.9	grey	115.2	201
3802544	4 G4	10.8	grey	153.6	249
3802553	3 G6	11.8	grey	172.8	289
3802554	4 G6	13.0	grey	230.4	365

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
Black					
3802564	4 G10	16.2	grey	384.0	590
3802574	4 G16	18.9	grey	614.4	1087
3802584	4 G25	23.5	grey	960.0	1582
3802002B	2 X0.75	5.4	black	14.4	50
3802003B	3 G0.75	5.7	black	21.6	59
3802004B	4 G0.75	6.2	black	28.8	71
3802005B	5 G0.75	6.7	black	36.0	86
3802007B	7 G0.75	7.3	black	50.4	104
3802010B	10 G0.75	9.6	black	72.0	156
3802012B	12 G0.75	9.9	black	86.4	178
3802015B	15 G0.75	11.1	black	108.0	231
3802018B	18 G0.75	11.7	black	129.6	254
3802021B	21 G0.75	13.0	black	151.2	301
3802025B	25 G0.75	13.8	black	180.0	351
3802041B	41 G0.75	17.3	black	295.2	560
3802052B	2 X1.0	5.7	black	19.2	58
3802053B	3 G1.0	6.0	black	28.8	70
3802054B	4 G1.0	6.5	black	38.4	84
3802055B	5 G1.0	7.2	black	48.0	101
3802057B	7 G1.0	8.0	black	67.2	132
3802062B	12 G1.0	10.5	black	115.2	214
3802066B	16 G1.0	11.8	black	153.6	272
3802068B	18 G1.0	12.7	black	172.8	303
3802075B	25 G1.0	14.7	black	240.0	410
3802102B	2 X1.5	6.3	black	28.8	71
3802103B	3 G1.5	6.7	black	43.2	87
3802104B	4 G1.5	7.2	black	57.6	106
3802105B	5 G1.5	8.1	black	72.0	133
3802107B	7 G1.5	8.9	black	100.8	171
3802108B	8 G1.5	10.0	black	115.2	218
3802109B	9 G1.5	10.7	black	129.6	256
3802112B	12 G1.5	11.4	black	172.8	285
3802114B	14 G1.5	12.6	black	201.6	329
3802118B	18 G1.5	14.4	black	259.2	429
3802121B	21 G1.5	15.7	black	302.4	479
3802125B	25 G1.5	16.9	black	360.0	560
3802153B	3 G2.5	8.1	black	72.0	135
3802154B	4 G2.5	8.9	black	96.0	166
3802155B	5 G2.5	10.0	black	120.0	208
3802162B	12 G2.5	14.8	black	288.0	438
3802157B	7 G2.5	11.1	black	168.0	269
3802168B	18 G2.5	17.8	black	432.0	661

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.



Info

- EMC environment
- UV-resistant
- Slim and light, without inner sheath

Technical data



Core identification code
Black core with white numbers



Based on
IEC 60227



Specific insulation resistance
> 20 GOhm x cm



Conductor stranding
Fine wire acc. to IEC 60228 Cl.5



Minimum bending radius
Occasional flexing: 25 x outer diameter
Fixed installation: 12 x outer diameter



Nominal voltage
U₀/U: 300/500 V



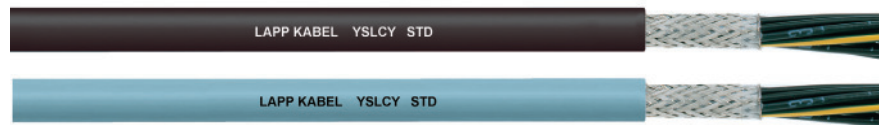
Test voltage
2000 V



Protective conductor
G = with protective conductor GN/YE
X = without protective conductor



Temperature range
Fixed installation: -20°C to +70°C



Benefits

- Space saving due to small cable diameter
- Economic solution for basic application

Application range

- Used as a connection cable for measuring, monitoring and control connections in industrial machineries, heating and air refrigeration systems, office equipment, etc.
- Dry or damp interiors under medium mechanical load conditions
- Fixed installations as well as for occasional flexing at free, non-continuously recurring movement without tensile load
- Suitable in EMC-critical environments

Product features

- Flame-retardant acc. to IEC 60332-1-2
- UV resistant can be used outdoor
- With or without protective conductor gn/ye

Approvals (Norm references)



Design

- Fine strands of bare copper wires
- PVC core insulation
- Plastic foil wrapping
- Tinned copper wire screen braiding
- PVC outer sheath, grey or black
- MOQ may apply for certain sizes

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
Grey					
3803702	2 X0.5	5.8	grey	18.8	45
3803703	3 G0.5	6.1	grey	24.4	59
3803704	4 G0.5	6.5	grey	30.3	71
3803705	5 G0.5	7.0	grey	36.3	86
3803706	7 G0.5	7.5	grey	47.4	105
3803707	10 G0.5	9.3	grey	66.8	168
3803708	12 G0.5	9.9	grey	76.4	200
3803709	16 G0.5	10.8	grey	97.9	252
3803710	18 G0.5	11.5	grey	108.9	275
3803711	21 G0.5	12.1	grey	124.4	306
3803712	25 G0.5	13.4	grey	147.7	350
3803740	2 X0.75	6.0	grey	24.6	69
3803741	3 G0.75	6.3	grey	32.7	79
3803742	4 G0.75	6.9	grey	41.1	93
3803743	5 G0.75	7.7	grey	49.7	116
3803744	7 G0.75	8.3	grey	65.7	139
3803745	10 G0.75	10.4	grey	93.0	196
3803810	12 G0.75	10.9	grey	107.4	232
3803746	16 G0.75	11.9	grey	139.2	277
3803811	18 G0.75	12.7	grey	154.7	292
3803747	21 G0.75	13.3	grey	177.5	347
3803748	25 G0.75	15.2	grey	210.7	418
3803750	2 X1.0	6.3	grey	30.5	77
3803751	3 G1.0	6.6	grey	40.9	90
3803752	4 G1.0	7.2	grey	51.8	105
3803753	5 G1.0	8.0	grey	63.1	131
3803754	7 G1.0	8.6	grey	83.8	161
3803755	10 G1.0	10.9	grey	118.6	223
3803815	12 G1.0	11.5	grey	137.8	285
3803756	16 G1.0	12.5	grey	179.5	322
3803816	18 G1.0	13.9	grey	199.9	395
3803757	21 G1.0	14.2	grey	230.4	448
3803758	25 G1.0	16.1	grey	273.7	493
3803760	2 X1.5	7.0	grey	41.1	97
3803761	3 G1.5	7.4	grey	56.6	118
3803762	4 G1.5	8.0	grey	72.7	140
3803763	5 G1.5	8.9	grey	89.0	174
3803764	7 G1.5	9.8	grey	119.2	216
3803765	10 G1.5	12.4	grey	169.5	310
3803817	12 G1.5	13.0	grey	198.3	332
3803766	16 G1.5	14.5	grey	259.1	489
3803818	18 G1.5	15.6	grey	290.1	553
3803767	21 G1.5	16.2	grey	340.7	535
3803768	25 G1.5	18.4	grey	403.8	884
3803770	2 X2.5	8.1	grey	63.7	130
3803771	3 G2.5	8.7	grey	89.1	161
3803772	4 G2.5	9.7	grey	114.9	205
3803773	5 G2.5	10.8	grey	141.1	248
3803774	7 G2.5	11.8	grey	191.2	319
3803775	10 G2.5	15.2	grey	272.5	466
3803776	18 G2.5	18.6	grey	477.5	733
3803780	2 X4	9.9	grey	95.9	200
3803781	3 G4	10.6	grey	135.7	255
3803782	4 G4	11.6	grey	176.6	294
3803783	5 G4	12.8	grey	217.9	362
3803784	7 G4	14.1	grey	297.6	460
3803787	2 X6	11.6	grey	138.2	274
3803788	3 G6	12.5	grey	197.9	373
3803789	4 G6	13.8	grey	258.0	447
3803790	5 G6	15.2	grey	318.8	538
3803791	7 G6	16.6	grey	443.4	676
3803794	2 X10	13.8	grey	220.3	407

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
3803795	3 G10	14.8	grey	318.5	566
3803796	4 G10	16.4	grey	423.8	733
3803797	5 G10	18.1	grey	523.9	915
3803800	2 X16	17.0	grey	348.2	563
3803801	3 G16	18.3	grey	505.0	783
3803802	4 G16	20.2	grey	669.4	984
3803803	5 G16	22.4	grey	829.5	1198
3803806	2 X25	20.7	grey	536.4	929
3803807	3 G25	22.1	grey	781.5	1260
3803808	4 G25	24.5	grey	1,028.3	1644
3803809	5 G25	27.0	grey	1,276.7	1997
Black					
3803702B	2 X0.5	5.8	black	18.8	45
3803703B	3 G0.5	6.1	black	24.4	59
3803704B	4 G0.5	6.5	black	30.3	71
3803705B	5 G0.5	7.0	black	36.3	86
3803706B	7 G0.5	7.5	black	47.4	105
3803707B	10 G0.5	9.3	black	66.8	168
3803708B	12 G0.5	9.9	black	76.4	200
3803709B	16 G0.5	10.8	black	97.9	252
3803710B	18 G0.5	11.5	black	108.9	275
3803711B	21 G0.5	12.1	black	124.4	306
3803712B	25 G0.5	13.4	black	147.7	350
3803740B	2 X0.75	6.0	black	24.6	69
3803741B	3 G0.75	6.3	black	32.7	79
3803742B	4 G0.75	6.9	black	41.1	93
3803743B	5 G0.75	7.7	black	49.7	116
3803744B	7 G0.75	8.3	black	65.7	139
3803745B	10 G0.75	10.4	black	93.0	196
3803810B	12 G0.75	10.9	black	107.4	232
3803746B	16 G0.75	11.9	black	139.2	277
3803811B	18 G0.75	12.7	black	154.7	292
3803747B	21 G0.75	13.3	black	177.5	347
3803748B	25 G0.75	15.2	black	210.7	418
3803750B	2 X1.0	6.3	black	30.5	77
3803751B	3 G1.0	6.6	black	40.9	90
3803752B	4 G1.0	7.2	black	51.8	105
3803753B	5 G1.0	8.0	black	63.1	131
3803754B	7 G1.0	8.6	black	83.8	161
3803755B	10 G1.0	10.9	black	118.6	223
3803815B	12 G1.0	11.5	black	137.8	285
3803756B	16 G1.0	12.5	black	179.5	322
3803816B	18 G1.0	13.9	black	199.9	395
3803757B	21 G1.0	14.2	black	230.4	448
3803758B	25 G1.0	16.1	black	273.7	493
3803760B	2 X1.5	7.0	black	41.1	97
3803761B	3 G1.5	7.4	black	56.6	118
3803762B	4 G1.5	8.0	black	72.7	140
3803763B	5 G1.5	8.9	black	89.0	174
3803764B	7 G1.5	9.8	black	119.2	216
3803765B	10 G1.5	12.4	black	169.5	310
3803817B	12 G1.5	13.0	black	198.3	332
3803766B	16 G1.5	14.5	black	259.1	489
3803818B	18 G1.5	15.6	black	290.1	553
3803767B	21 G1.5	16.2	black	340.7	535
3803768B	25 G1.5	18.4	black	403.8	884
3803770B	2 X2.5	8.1	black	63.7	130
3803771B	3 G2.5	8.7	black	89.1	161
3803772B	4 G2.5	9.7	black	114.9	205
3803773B	5 G2.5	10.8	black	141.1	248
3803774B	7 G2.5	11.8	black	191.2	319
3803775B	10 G2.5	15.2	black	272.5	466
3803776B	18 G2.5	18.6	black	477.5	733

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Photographs are not to scale and do not represent detailed images of the respective products.

For current information see: www.lappcableasia.lappgroup.com

V-90HT SC

High temperature PVC insulated cables



Benefits

- The light weight and the practical hand holes in the spool packaging makes handling easy
- Higher economy by optimum processing volumes

Application range

- Suitable for assembling cable harnesses and wiring in the switch cabinet installation
- Used for installations in plants, devices, switch gear cabinets, where high temperature occur

Product features

- Flame retardant in acc. to VW -1, and IEC 60332-1-2
- Wide temperature range up to 105°C

Approvals (Norm references)



Design

- Fine strands of tinned annealed copper wire
- High temperature PVC based core insulation



Info

- Single core, flexible hook-up wire
- UL Style 1015 and UL 10269

Technical data



Core identification code
Please see note below



Based on
In acc. to UL 1015 and UL 10269



Specific insulation resistance
> 20 GOhm x cm



Conductor stranding
Fine wire acc. to
VDE 0295 Cl.5 / IEC 60228 Cl.5



Minimum bending radius
Fixed installation: 3 x cable diameter



Nominal voltage
U₀/U: 600/1000 V



Test voltage
3000 V



Temperature range
-20°C to +105°C

Article number	Conductor cross-section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
3801000	0.5	2.5	green-yellow	4.8	11
3801001	0.5	2.5	black	4.8	11
3801002	0.5	2.5	blue	4.8	11
3801003	0.5	2.5	brown	4.8	11
3801004	0.5	2.5	red	4.8	11
3801005	0.5	2.5	white	4.8	11
3801006	0.5	2.5	grey	4.8	11
3801007	0.5	2.5	violet	4.8	11
3801008	0.5	2.5	pink	4.8	11
3801009	0.5	2.5	orange	4.8	11
3801011	0.5	2.5	yellow	4.8	11
3801012	0.5	2.5	green	4.8	11
3801014	0.5	2.7	dark blue	4.8	11
3801010	0.75	2.7	green-yellow	7.2	14.1
3801011	0.75	2.7	black	7.2	14.1
3801012	0.75	2.7	blue	7.2	14.1
3801013	0.75	2.7	brown	7.2	14.1
3801014	0.75	2.7	red	7.2	14.1
3801015	0.75	2.7	white	7.2	14.1
3801016	0.75	2.7	grey	7.2	14.1
3801017	0.75	2.7	violet	7.2	14.1
3801018	0.75	2.7	pink	7.2	14.1
3801019	0.75	2.7	orange	7.2	14.1
3801011	0.75	2.7	yellow	7.2	14.1
3801362	0.75	2.7	green	7.2	14.1
3801014	0.75	2.7	dark blue	7.2	14.1
3801020	1.0	2.9	green-yellow	9.6	17.2
3801021	1.0	2.9	black	9.6	17.2
3801022	1.0	2.9	blue	9.6	17.2
3801023	1.0	2.9	brown	9.6	17.2
3801024	1.0	2.9	red	9.6	17.2
3801025	1.0	2.9	white	9.6	17.2
3801026	1.0	2.9	grey	9.6	17.2
3801027	1.0	2.9	violet	9.6	17.2
3801028	1.0	2.9	pink	9.6	17.2
3801029	1.0	2.9	orange	9.6	17.2
38010211	1.0	2.9	yellow	9.6	17.2
38010212	1.0	2.9	green	9.6	17.2
38010214	1.0	2.9	dark blue	9.6	17.2
3801030	1.5	3.2	green-yellow	14.4	23.3
3801031	1.5	3.2	black	14.4	23.3
3801032	1.5	3.2	blue	14.4	23.3
3801033	1.5	3.2	brown	14.4	23.3
3801034	1.5	3.2	red	14.4	23.3
3801035	1.5	3.2	white	14.4	23.3
3801036	1.5	3.2	grey	14.4	23.3
3801037	1.5	3.2	violet	14.4	23.3
3801038	1.5	3.2	pink	14.4	23.3
3801039	1.5	3.2	orange	14.4	23.3
38010311	1.5	3.2	yellow	14.4	23.3
38010312	1.5	3.2	green	14.4	23.3
38010314	1.5	3.2	dark blue	14.4	23.3
3801040	2.5	3.7	green-yellow	24.0	34.4

Article number	Conductor cross-section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
3801041	2.5	3.7	black	24.0	34.4
3801042	2.5	3.7	blue	24.0	34.4
3801043	2.5	3.7	brown	24.0	34.4
3801044	2.5	3.7	red	24.0	34.4
3801045	2.5	3.7	white	24.0	34.4
3801046	2.5	3.7	grey	24.0	34.4
3801047	2.5	3.7	violet	24.0	34.4
3801048	2.5	3.7	pink	24.0	34.4
3801049	2.5	3.7	orange	24.0	34.4
38010411	2.5	3.7	yellow	24.0	34.4
38010412	2.5	3.7	green	24.0	34.4
38010414	2.5	3.7	dark blue	24.0	34.4
3801050	4.0	4.3	green-yellow	38.4	54.2
3801051	4.0	4.3	black	38.4	54.2
3801052	4.0	4.3	blue	38.4	54.2
3801053	4.0	4.3	brown	38.4	54.2
3801054	4.0	4.3	red	38.4	54.2
3801055	4.0	4.3	white	38.4	54.2
3801056	4.0	4.3	grey	38.4	54.2
3801057	4.0	4.3	violet	38.4	54.2
3801058	4.0	4.3	pink	38.4	54.2
3801059	4.0	4.3	orange	38.4	54.2
38010511	4.0	4.3	yellow	38.4	54.2
38010512	4.0	4.3	green	38.4	54.2
38010514	4.0	4.3	dark blue	38.4	54.2
3801060	6.0	4.9	green-yellow	57.6	87.9
3801061	6.0	4.9	black	57.6	87.9
3801062	6.0	4.9	blue	57.6	87.9
3801063	6.0	4.9	brown	57.6	87.9
3801064	6.0	4.9	red	57.6	87.9
3801065	6.0	4.9	white	57.6	87.9
3801066	6.0	4.9	grey	57.6	87.9
3801067	6.0	4.9	violet	57.6	87.9
3801068	6.0	4.9	pink	57.6	87.9
3801069	6.0	4.9	orange	57.6	87.9
38010611	6.0	4.9	yellow	57.6	87.9
38010612	6.0	4.9	green	57.6	87.9
38010614	6.0	4.9	dark blue	57.6	87.9
3801070	10.0	6.5	green-yellow	96.0	138.3
3801071	10.0	6.5	black	96.0	138.3
3801072	10.0	6.5	blue	96.0	138.3
3801073	10.0	6.5	brown	96.0	138.3
3801074	10.0	6.5	red	96.0	138.3
3801075	10.0	6.5	white	96.0	138.3
3801076	10.0	6.5	grey	96.0	138.3
3801077	10.0	6.5	violet	96.0	138.3
3801078	10.0	6.5	pink	96.0	138.3
3801079	10.0	6.5	orange	96.0	138.3
38010711	10.0	6.5	yellow	96.0	138.3
38010712	10.0	6.5	green	96.0	138.3
38010714	10.0	6.5	dark blue	96.0	138.3
3801080	16.0	8.4	green-yellow	153.6	230.6
3801081	16.0	8.4	black	153.6	230.6

Article number	Conductor cross-section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
3801082	16.0	8.4	blue	153.6	230.6
3801083	16.0	8.4	brown	153.6	230.6
3801084	16.0	8.4	red	153.6	230.6
3801085	16.0	8.4	white	153.6	230.6
3801086	16.0	8.4	grey	153.6	230.6
3801087	16.0	8.4	violet	153.6	230.6
3801088	16.0	8.4	pink	153.6	230.6
3801089	16.0	8.4	orange	153.6	230.6
38010811	16.0	8.4	yellow	153.6	230.6
38010812	16.0	8.4	green	153.6	230.6
38010814	16.0	8.4	dark blue	153.6	230.6
3802410	25.0	10.2	green-yellow	240.0	305
3802411	25.0	10.2	black	240.0	305
3802412	25.0	10.2	blue	240.0	305
3802413	25.0	10.2	brown	240.0	305
3802414	25.0	10.2	red	240.0	305
3802415	25.0	10.2	white	240.0	305
3802416	25.0	10.2	grey	240.0	305
3802417	25.0	10.2	violet	240.0	305
3802418	25.0	10.2	pink	240.0	305
3802419	25.0	10.2	orange	240.0	305
38024111	25.0	10.2	yellow	240.0	305
38024112	25.0	10.2	green	240.0	305
38024114	25.0	10.2	dark blue	240.0	305
3802420	35.0	12.4	green-yellow	336.0	437
3802421	35.0	12.4	black	336.0	437
3802422	35.0	12.4	blue	336.0	437
3802423	35.0	12.4	brown	336.0	437
3802424	35.0	12.4	red	336.0	437
3802425	35.0	12.4	white	336.0	437
3802426	35.0	12.4	grey	336.0	437
3802427	35.0	12.4	violet	336.0	437
3802428	35.0	12.4	pink	336.0	437
3802429	35.0	12.4	orange	336.0	437
38024211	35.0	12.4	yellow	336.0	437
38024212	35.0	12.4	green	336.0	437
38024214	35.0	12.4	dark blue	336.0	437
3802430	50.0	13.9	green-yellow	480.0	588
3802431	50.0	13.9	black	480.0	588
3802432	50.0	13.9	blue	480.0	588
3802433	50.0	13.9	brown	480.0	588
3802434	50.0	13.9	red	480.0	588
3802435	50.0	13.9	white	480.0	588
3802436	50.0	13.9	grey	480.0	588
3802437	50.0	13.9	violet	480.0	588
3802438	50.0	13.9	pink	480.0	588
3802439	50.0	13.9	orange	480.0	588
38024311	50.0	13.9	yellow	480.0	588
38024312	50.0	13.9	green	480.0	588
38024314	50.0	13.9	dark blue	480.0	588
3802440	70.0	16.0	green-yellow	672.0	790
3802441	70.0	16.0	black	672.0	790
3802442	70.0	16.0	blue	672.0	790
3802443	70.0	16.0	brown	672.0	790
3802444	70.0	16.0	red	672.0	790
3802445	70.0	16.0	white	672.0	790
3802446	70.0	16.0	grey	672.0	790
3802447	70.0	16.0	violet	672.0	790
3802448	70.0	16.0	pink	672.0	790
3802449	70.0	16.0	orange	672.0	790
38024411	70.0	16.0	yellow	672.0	790
38024412	70.0	16.0	green	672.0	790
38024414	70.0	16.0	dark blue	672.0	790
3802450	95.0	18.0	green-yellow	912.0	1051

Article number	Conductor cross-section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
3802451	95.0	18.0	black	912.0	1051
3802452	95.0	18.0	blue	912.0	1051
3802453	95.0	18.0	brown	912.0	1051
3802454	95.0	18.0	red	912.0	1051
3802455	95.0	18.0	white	912.0	1051
3802456	95.0	18.0	grey	912.0	1051
3802457	95.0	18.0	violet	912.0	1051
3802458	95.0	18.0	pink	912.0	1051
3802459	95.0	18.0	orange	912.0	1051
38024511	95.0	18.0	yellow	912.0	1051
38024512	95.0	18.0	green	912.0	1051
38024514	95.0	18.0	dark blue	912.0	1051
3802460	120.0	20.5	green-yellow	1,152.0	1330
3802461	120.0	20.5	black	1,152.0	1330
3802462	120.0	20.5	blue	1,152.0	1330
3802463	120.0	20.5	brown	1,152.0	1330
3802464	120.0	20.5	red	1,152.0	1330
3802465	120.0	20.5	white	1,152.0	1330
3802466	120.0	20.5	grey	1,152.0	1330
3802467	120.0	20.5	violet	1,152.0	1330
3802468	120.0	20.5	pink	1,152.0	1330
3802469	120.0	20.5	orange	1,152.0	1330
38024611	120.0	20.5	yellow	1,152.0	1330
38024612	120.0	20.5	green	1,152.0	1330
38024614	120.0	20.5	dark blue	1,152.0	1330
3802470	150.0	22.2	green-yellow	1,440.0	1628
3802471	150.0	22.2	black	1,440.0	1628
3802472	150.0	22.2	blue	1,440.0	1628
3802473	150.0	22.2	brown	1,440.0	1628
3802474	150.0	22.2	red	1,440.0	1628
3802475	150.0	22.2	white	1,440.0	1628
3802476	150.0	22.2	grey	1,440.0	1628
3802477	150.0	22.2	violet	1,440.0	1628
3802478	150.0	22.2	pink	1,440.0	1628
3802479	150.0	22.2	orange	1,440.0	1628
38024711	150.0	22.2	yellow	1,440.0	1628
38024712	150.0	22.2	green	1,440.0	1628
38024714	150.0	22.2	dark blue	1,440.0	1628
3802480	185.0	24.2	green-yellow	1,776.0	1984
3802481	185.0	24.2	black	1,776.0	1984
3802482	185.0	24.2	blue	1,776.0	1984
3802483	185.0	24.2	brown	1,776.0	1984
3802484	185.0	24.2	red	1,776.0	1984
3802485	185.0	24.2	white	1,776.0	1984
3802486	185.0	24.2	grey	1,776.0	1984
3802487	185.0	24.2	violet	1,776.0	1984
3802488	185.0	24.2	pink	1,776.0	1984
3802489	185.0	24.2	orange	1,776.0	1984
38024811	185.0	24.2	yellow	1,776.0	1984
38024812	185.0	24.2	green	1,776.0	1984
38024814	185.0	24.2	dark blue	1,776.0	1984
3802490	240.0	29.5	green-yellow	2,304.0	2514
3802491	240.0	29.5	black	2,304.0	2514
3802492	240.0	29.5	blue	2,304.0	2514
3802493	240.0	29.5	brown	2,304.0	2514
3802494	240.0	29.5	red	2,304.0	2514
3802495	240.0	29.5	white	2,304.0	2514
3802496	240.0	29.5	grey	2,304.0	2514
3802497	240.0	29.5	violet	2,304.0	2514
3802498	240.0	29.5	pink	2,304.0	2514
3802499	240.0	29.5	orange	2,304.0	2514
38024911	240.0	29.5	yellow	2,304.0	2514
38024912	240.0	29.5	green	2,304.0	2514
38024914	240.0	29.5	dark blue	2,304.0	2514

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.

FLEXI UL 1007 SC / FLEXI UL 1015 SC

Flexible single-core cable



Info

- Single-core flexible hook-up wires
- UL-approved

Benefits

- Usage on the most important global markets
- Easier storage
- Increased economy in the production process

Application range

- Internal wiring of electronic and electrical equipment / appliances
- Control cabinet

Product features

- Flame retardant in acc. to UL VW-1 / CSA FT1

Approvals (Norm references)



Design

- Fine strands of tinned copper wire
- PVC core insulation

Technical data



Core identification code
Please refer to table



Approvals
UL AWM Style 1007
UL AWM Style 1015



Specific insulation resistance
> 20 GOhm x cm



Conductor stranding
Fine wire of tinned copper



Nominal voltage
300 V (UL Style 1007)
600 V (UL Style 1015)



Test voltage
2000 V (UL Style 1007)
2500 V (UL Style 1015)



Temperature range
-10°C to +80°C (UL Style 1007)
-10°C to +105°C (UL Style 1015)

Article number	Conductor cross-section (AWG)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
FLEXI UL 1007 SC					
3803100	26.0	1.3	green-yellow	1.4	3.23
3803101	26.0	1.3	black	1.4	3.23
3803102	26.0	1.3	blue	1.4	3.23
3803103	26.0	1.3	brown	1.4	3.23
3803104	26.0	1.3	red	1.4	3.23
3803105	26.0	1.3	white	1.4	3.23
3803106	26.0	1.3	grey	1.4	3.23
3803107	26.0	1.3	violet	1.4	3.23
3803108	26.0	1.3	pink	1.4	3.23
3803109	26.0	1.3	orange	1.4	3.23
3803111	26.0	1.3	yellow	1.4	3.23
3803112	26.0	1.3	green	1.4	3.23
3803114	26.0	1.3	dark blue	1.4	3.23
3803200	24.0	1.4	green-yellow	2.2	4.4
3803201	24.0	1.4	black	2.2	4.4
3803202	24.0	1.4	blue	2.2	4.4
3803203	24.0	1.4	brown	2.2	4.4
3803204	24.0	1.4	red	2.2	4.4
3803205	24.0	1.4	white	2.2	4.4
3803206	24.0	1.4	grey	2.2	4.4
3803207	24.0	1.4	violet	2.2	4.4
3803208	24.0	1.4	pink	2.2	4.4
3803209	24.0	1.4	orange	2.2	4.4
3803211	24.0	1.4	yellow	2.2	4.4
3803212	24.0	1.4	green	2.2	4.4
3803214	24.0	1.4	dark blue	2.2	4.4
3803300	22.0	1.6	green-yellow	3.3	5.9
3803301	22.0	1.6	black	3.3	5.9
3803302	22.0	1.6	blue	3.3	5.9
3803303	22.0	1.6	brown	3.3	5.9
3803304	22.0	1.6	red	3.3	5.9
3803305	22.0	1.6	white	3.3	5.9
3803306	22.0	1.6	grey	3.3	5.9
3803307	22.0	1.6	violet	3.3	5.9
3803308	22.0	1.6	pink	3.3	5.9
3803309	22.0	1.6	orange	3.3	5.9
3803311	22.0	1.6	yellow	3.3	5.9
3803312	22.0	1.6	green	3.3	5.9
3803314	22.0	1.6	dark blue	3.3	5.9
3803400	20.0	1.8	green-yellow	5.2	8.4
3803401	20.0	1.8	black	5.2	8.4
3803402	20.0	1.8	blue	5.2	8.4
3803403	20.0	1.8	brown	5.2	8.4
3803404	20.0	1.8	red	5.2	8.4
3803405	20.0	1.8	white	5.2	8.4
3803406	20.0	1.8	grey	5.2	8.4
3803407	20.0	1.8	violet	5.2	8.4
3803408	20.0	1.8	pink	5.2	8.4
3803409	20.0	1.8	orange	5.2	8.4
3803411	20.0	1.8	yellow	5.2	8.4
3803412	20.0	1.8	green	5.2	8.4
3803414	20.0	1.8	dark blue	5.2	8.4
3803500	18.0	2.1	green-yellow	8.5	13
3803501	18.0	2.1	black	8.5	13
3803502	18.0	2.1	blue	8.5	13

Article number	Conductor cross-section (AWG)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
3803503	18.0	2.1	brown	8.5	13
3803504	18.0	2.1	red	8.5	13
3803505	18.0	2.1	white	8.5	13
3803506	18.0	2.1	grey	8.5	13
3803507	18.0	2.1	violet	8.5	13
3803508	18.0	2.1	pink	8.5	13
3803509	18.0	2.1	orange	8.5	13
3803511	18.0	2.1	yellow	8.5	13
3803512	18.0	2.1	green	8.5	13
3803514	18.0	2.1	dark blue	8.5	13
3803600	16.0	2.4	green-yellow	13.0	18
3803601	16.0	2.4	black	13.0	18
3803602	16.0	2.4	blue	13.0	18
3803603	16.0	2.4	brown	13.0	18
3803604	16.0	2.4	red	13.0	18
3803605	16.0	2.4	white	13.0	18
3803606	16.0	2.4	grey	13.0	18
3803607	16.0	2.4	violet	13.0	18
3803608	16.0	2.4	pink	13.0	18
3803609	16.0	2.4	orange	13.0	18
3803611	16.0	2.4	yellow	13.0	18
3803612	16.0	2.4	green	13.0	18
3803614	16.0	2.4	dark blue	13.0	18
FLEXI UL 1015 SC					
3803120	26.0	2.0	green-yellow	1.4	5.9
3803121	26.0	2.0	black	1.4	5.9
3803122	26.0	2.0	blue	1.4	5.9
3803123	26.0	2.0	brown	1.4	5.9
3803124	26.0	2.0	red	1.4	5.9
3803125	26.0	2.0	white	1.4	5.9
3803126	26.0	2.0	grey	1.4	5.9
3803127	26.0	2.0	violet	1.4	5.9
3803128	26.0	2.0	pink	1.4	5.9
3803129	26.0	2.0	orange	1.4	5.9
3803131	26.0	2.0	yellow	1.4	5.9
3803132	26.0	2.0	green	1.4	5.9
3803134	26.0	2.0	dark blue	1.4	5.9
3803220	24.0	2.1	green-yellow	2.2	7.1
3803221	24.0	2.1	black	2.2	7.1
3803222	24.0	2.1	blue	2.2	7.1
3803223	24.0	2.1	brown	2.2	7.1
3803224	24.0	2.1	red	2.2	7.1
3803225	24.0	2.1	white	2.2	7.1
3803226	24.0	2.1	grey	2.2	7.1
3803227	24.0	2.1	violet	2.2	7.1
3803228	24.0	2.1	pink	2.2	7.1
3803229	24.0	2.1	orange	2.2	7.1
3803231	24.0	2.1	yellow	2.2	7.1
3803232	24.0	2.1	green	2.2	7.1
3803234	24.0	2.1	dark blue	2.2	7.1
3803320	22.0	2.3	green-yellow	3.3	8.8
3803321	22.0	2.3	black	3.3	8.8
3803322	22.0	2.3	blue	3.3	8.8
3803323	22.0	2.3	brown	3.3	8.8
3803324	22.0	2.3	red	3.3	8.8
3803325	22.0	2.3	white	3.3	8.8

Article number	Conductor cross-section (AWG)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
3803326	22.0	2.3	grey	3.3	8.8
3803327	22.0	2.3	violet	3.3	8.8
3803328	22.0	2.3	pink	3.3	8.8
3803329	22.0	2.3	orange	3.3	8.8
3803331	22.0	2.3	yellow	3.3	8.8
3803332	22.0	2.3	green	3.3	8.8
3803334	22.0	2.3	dark blue	3.3	8.8
3803420	20.0	2.5	green-yellow	5.2	11.7
3803421	20.0	2.5	black	5.2	11.7
3803422	20.0	2.5	blue	5.2	11.7
3803423	20.0	2.5	brown	5.2	11.7
3803424	20.0	2.5	red	5.2	11.7
3803425	20.0	2.5	white	5.2	11.7
3803426	20.0	2.5	grey	5.2	11.7
3803427	20.0	2.5	violet	5.2	11.7
3803428	20.0	2.5	pink	5.2	11.7
3803429	20.0	2.5	orange	5.2	11.7
3803431	20.0	2.5	yellow	5.2	11.7
3803432	20.0	2.5	green	5.2	11.7
3803434	20.0	2.5	dark blue	5.2	11.7
3803520	18.0	2.9	green-yellow	8.5	15.5
3803521	18.0	2.9	black	8.5	15.5
3803522	18.0	2.9	blue	8.5	15.5
3803523	18.0	2.9	brown	8.5	15.5
3803524	18.0	2.9	red	8.5	15.5
3803525	18.0	2.9	white	8.5	15.5
3803526	18.0	2.9	grey	8.5	15.5
3803527	18.0	2.9	violet	8.5	15.5
3803528	18.0	2.9	pink	8.5	15.5
3803529	18.0	2.9	orange	8.5	15.5
3803531	18.0	2.9	yellow	8.5	15.5
3803532	18.0	2.9	green	8.5	15.5
3803534	18.0	2.9	dark blue	8.5	15.5
3803620	16.0	3.2	green-yellow	13.0	21.1
3803621	16.0	3.2	black	13.0	21.1
3803622	16.0	3.2	blue	13.0	21.1
3803623	16.0	3.2	brown	13.0	21.1
3803624	16.0	3.2	red	13.0	21.1
3803625	16.0	3.2	white	13.0	21.1
3803626	16.0	3.2	grey	13.0	21.1
3803627	16.0	3.2	violet	13.0	21.1
3803628	16.0	3.2	pink	13.0	21.1
3803629	16.0	3.2	orange	13.0	21.1

Article number	Conductor cross-section (AWG)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
3803631	16.0	3.2	yellow	13.0	21.1
3803632	16.0	3.2	green	13.0	21.1
3803634	16.0	3.2	dark blue	13.0	21.1
3803720	14.0	3.7	green-yellow	21.0	30.2
3803721	14.0	3.7	black	21.0	30.2
3803722	14.0	3.7	blue	21.0	30.2
3803723	14.0	3.7	brown	21.0	30.2
3803724	14.0	3.7	red	21.0	30.2
3803725	14.0	3.7	white	21.0	30.2
3803726	14.0	3.7	grey	21.0	30.2
3803727	14.0	3.7	violet	21.0	30.2
3803728	14.0	3.7	pink	21.0	30.2
3803729	14.0	3.7	orange	21.0	30.2
3803731	14.0	3.7	yellow	21.0	30.2
3803732	14.0	3.7	green	21.0	30.2
3803734	14.0	3.7	dark blue	21.0	30.2
3803820	12.0	4.1	green-yellow	33.0	43.3
3803821	12.0	4.1	black	33.0	43.3
3803822	12.0	4.1	blue	33.0	43.3
3803823	12.0	4.1	brown	33.0	43.3
3803824	12.0	4.1	red	33.0	43.3
3803825	12.0	4.1	white	33.0	43.3
3803826	12.0	4.1	grey	33.0	43.3
3803827	12.0	4.1	violet	33.0	43.3
3803828	12.0	4.1	pink	33.0	43.3
3803829	12.0	4.1	orange	33.0	43.3
3803831	12.0	4.1	yellow	33.0	43.3
3803832	12.0	4.1	green	33.0	43.3
3803834	12.0	4.1	dark blue	33.0	43.3
3803920	10.0	5.0	green-yellow	53.3	65.9
3803921	10.0	5.0	black	53.3	65.9
3803922	10.0	5.0	blue	53.3	65.9
3803923	10.0	5.0	brown	53.3	65.9
3803924	10.0	5.0	red	53.3	65.9
3803925	10.0	5.0	white	53.3	65.9
3803926	10.0	5.0	grey	53.3	65.9
3803927	10.0	5.0	violet	53.3	65.9
3803928	10.0	5.0	pink	53.3	65.9
3803929	10.0	5.0	orange	53.3	65.9
3803931	10.0	5.0	yellow	53.3	65.9
3803932	10.0	5.0	green	53.3	65.9
3803934	10.0	5.0	dark blue	53.3	65.9

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.

FLEXI H SC

Flexible halogen-free



Info

- Single core, Flexible
- Halogen-free

Benefits

- Halogen free insulation material and free of releasing corrosive gases in the event of fire
- Protection of human life and the environment caused by the formation of acid in case of fire

Application range

- For use in wiring switchgear, control panel, lighting, and distribution boxes installation
- For installation in enclosed metallic or non-metallic conduit, ducting, and trunking protective cover
- In buildings with a high concentration of people or valuables

Product features

- Flame retardant in acc. to IEC 60332-3-22
- Halogen free in acc. to IEC 60754-1
- Smoke density in acc. to IEC 61034

Approvals (Norm references)



Design

- Fine strands of bare copper wire
- LSHF core insulation

Technical data



Core identification code
Please refer to table



Based on
BS 6231, BS EN 50363



Conductor stranding
Fine wire acc. to
IEC 60228 Cl. 5 / BS 6360 Cl. 5



Minimum bending radius
Fixed installation: 6 x cable diameter



Nominal voltage
U₀/U: 600/1000 V



Test voltage
4000 V



Temperature range
-30°C to +90°C

Article number	Conductor cross-section (mm ²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
3802210	0.5	2.6	green-yellow	4.8	11
3802211	0.5	2.6	black	4.8	11
3802212	0.5	2.6	blue	4.8	11
3802213	0.5	2.6	brown	4.8	11
3802214	0.5	2.6	red	4.8	11
3802215	0.5	2.6	grey	4.8	11
3802216	0.5	2.6	white	4.8	11
3802217	0.5	2.6	orange	4.8	11
3802218	0.5	2.6	yellow	4.8	11
3802219	0.5	2.6	green	4.8	11
3802220	0.75	2.8	green-yellow	7.2	14
3802221	0.75	2.8	black	7.2	14
3802222	0.75	2.8	blue	7.2	14
3802223	0.75	2.8	brown	7.2	14
3802224	0.75	2.8	red	7.2	14
3802225	0.75	2.8	grey	7.2	14
3802226	0.75	2.8	white	7.2	14
3802227	0.75	2.8	orange	7.2	14
3802228	0.75	2.8	yellow	7.2	14
3802229	0.75	2.8	green	7.2	14
3802230	1.0	2.9	green-yellow	9.6	16
3802231	1.0	2.9	black	9.6	16
3802232	1.0	2.9	blue	9.6	16
3802233	1.0	2.9	brown	9.6	16
3802234	1.0	2.9	red	9.6	16
3802235	1.0	2.9	grey	9.6	16
3802236	1.0	2.9	white	9.6	16
3802237	1.0	2.9	orange	9.6	16
3802238	1.0	2.9	yellow	9.6	16
3802239	1.0	2.9	green	9.6	16
3802240	1.5	3.2	green-yellow	14.4	22
3802241	1.5	3.2	black	14.4	22
3802242	1.5	3.2	blue	14.4	22
3802243	1.5	3.2	brown	14.4	22
3802244	1.5	3.2	red	14.4	22
3802245	1.5	3.2	grey	14.4	22
3802246	1.5	3.2	white	14.4	22
3802247	1.5	3.2	orange	14.4	22
3802248	1.5	3.2	yellow	14.4	22
3802249	1.5	3.2	green	14.4	22
3802250	2.5	3.6	green-yellow	24.0	32
3802251	2.5	3.6	black	24.0	32
3802252	2.5	3.6	blue	24.0	32
3802253	2.5	3.6	brown	24.0	32
3802254	2.5	3.6	red	24.0	32
3802255	2.5	3.6	grey	24.0	32
3802256	2.5	3.6	white	24.0	32
3802257	2.5	3.6	orange	24.0	32
3802258	2.5	3.6	yellow	24.0	32
3802259	2.5	3.6	green	24.0	32
3802260	4.0	4.6	green-yellow	38.4	52
3802261	4.0	4.6	black	38.4	52
3802262	4.0	4.6	blue	38.4	52
3802263	4.0	4.6	brown	38.4	52
3802264	4.0	4.6	red	38.4	52

Article number	Conductor cross-section (mm ²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
3802265	4.0	4.6	grey	38.4	52
3802266	4.0	4.6	white	38.4	52
3802267	4.0	4.6	orange	38.4	52
3802268	4.0	4.6	yellow	38.4	52
3802269	4.0	4.6	green	38.4	52
3802270	6.0	5.3	green-yellow	57.6	76
3802271	6.0	5.3	black	57.6	76
3802272	6.0	5.3	blue	57.6	76
3802273	6.0	5.3	brown	57.6	76
3802274	6.0	5.3	red	57.6	76
3802275	6.0	5.3	grey	57.6	76
3802276	6.0	5.3	white	57.6	76
3802277	6.0	5.3	orange	57.6	76
3802278	6.0	5.3	yellow	57.6	76
3802279	6.0	5.3	green	57.6	76
3802280	10.0	6.3	green-yellow	96.0	119
3802281	10.0	6.3	black	96.0	119
3802282	10.0	6.3	blue	96.0	119
3802283	10.0	6.3	brown	96.0	119
3802284	10.0	6.3	red	96.0	119
3802285	10.0	6.3	grey	96.0	119
3802286	10.0	6.3	white	96.0	119
3802287	10.0	6.3	orange	96.0	119
3802288	10.0	6.3	yellow	96.0	119
3802289	10.0	6.3	green	96.0	119
3802290	16.0	7.4	green-yellow	153.6	175
3802291	16.0	7.4	black	153.6	175
3802292	16.0	7.4	blue	153.6	175
3802293	16.0	7.4	brown	153.6	175
3802294	16.0	7.4	red	153.6	175
3802295	16.0	7.4	grey	153.6	175
3802296	16.0	7.4	white	153.6	175
3802297	16.0	7.4	orange	153.6	175
3802298	16.0	7.4	yellow	153.6	175
3802299	16.0	7.4	green	153.6	175
3802300	25.0	9.2	green-yellow	240.0	270
3802301	25.0	9.2	black	240.0	270
3802302	25.0	9.2	blue	240.0	270
3802303	25.0	9.2	brown	240.0	270
3802304	25.0	9.2	red	240.0	270
3802305	25.0	9.2	grey	240.0	270
3802306	25.0	9.2	white	240.0	270
3802307	25.0	9.2	orange	240.0	270
3802308	25.0	9.2	yellow	240.0	270
3802309	25.0	9.2	green	240.0	270
3802310	35.0	10.5	green-yellow	336.0	373
3802311	35.0	10.5	black	336.0	373
3802312	35.0	10.5	blue	336.0	373
3802313	35.0	10.5	brown	336.0	373
3802314	35.0	10.5	red	336.0	373
3802315	35.0	10.5	grey	336.0	373
3802316	35.0	10.5	white	336.0	373
3802317	35.0	10.5	orange	336.0	373
3802318	35.0	10.5	yellow	336.0	373
3802319	35.0	10.5	green	336.0	373

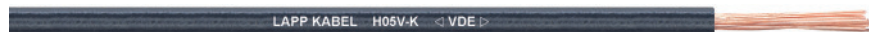
Article number	Conductor cross-section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
3802320	50.0	12.5	green-yellow	480.0	519
3802321	50.0	12.5	black	480.0	519
3802322	50.0	12.5	blue	480.0	519
3802323	50.0	12.5	brown	480.0	519
3802324	50.0	12.5	red	480.0	519
3802325	50.0	12.5	grey	480.0	519
3802326	50.0	12.5	white	480.0	519
3802327	50.0	12.5	orange	480.0	519
3802328	50.0	12.5	yellow	480.0	519
3802329	50.0	12.5	green	480.0	519
3802330	70.0	14.4	green-yellow	672.0	726
3802331	70.0	14.4	black	672.0	726
3802332	70.0	14.4	blue	672.0	726
3802333	70.0	14.4	brown	672.0	726
3802334	70.0	14.4	red	672.0	726
3802335	70.0	14.4	grey	672.0	726
3802336	70.0	14.4	white	672.0	726
3802337	70.0	14.4	orange	672.0	726
3802338	70.0	14.4	yellow	672.0	726
3802339	70.0	14.4	green	672.0	726
3802340	95.0	16.6	green-yellow	912.0	960
3802341	95.0	16.6	black	912.0	960
3802342	95.0	16.6	blue	912.0	960
3802343	95.0	16.6	brown	912.0	960
3802344	95.0	16.6	red	912.0	960
3802345	95.0	16.6	grey	912.0	960
3802346	95.0	16.6	white	912.0	960
3802347	95.0	16.6	orange	912.0	960
3802348	95.0	16.6	yellow	912.0	960
3802349	95.0	16.6	green	912.0	960
3802350	120.0	18.3	green-yellow	1,152.0	1198
3802351	120.0	18.3	black	1,152.0	1198
3802352	120.0	18.3	blue	1,152.0	1198
3802353	120.0	18.3	brown	1,152.0	1198
3802354	120.0	18.3	red	1,152.0	1198

Article number	Conductor cross-section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
3802355	120.0	18.3	grey	1,152.0	1198
3802356	120.0	18.3	white	1,152.0	1198
3802357	120.0	18.3	orange	1,152.0	1198
3802358	120.0	18.3	yellow	1,152.0	1198
3802359	120.0	18.3	green	1,152.0	1198
3802360	150.0	20.6	green-yellow	1,440.0	1491
3802361	150.0	20.6	black	1,440.0	1491
3802362	150.0	20.6	blue	1,440.0	1491
3802363	150.0	20.6	brown	1,440.0	1491
3802364	150.0	20.6	red	1,440.0	1491
3802365	150.0	20.6	grey	1,440.0	1491
3802366	150.0	20.6	white	1,440.0	1491
3802367	150.0	20.6	orange	1,440.0	1491
3802368	150.0	20.6	yellow	1,440.0	1491
3802369	150.0	20.6	green	1,440.0	1491
3802370	185.0	22.8	green-yellow	1,776.0	1829
3802371	185.0	22.8	black	1,776.0	1829
3802372	185.0	22.8	blue	1,776.0	1829
3802373	185.0	22.8	brown	1,776.0	1829
3802374	185.0	22.8	red	1,776.0	1829
3802375	185.0	22.8	grey	1,776.0	1829
3802376	185.0	22.8	white	1,776.0	1829
3802377	185.0	22.8	orange	1,776.0	1829
3802378	185.0	22.8	yellow	1,776.0	1829
3802379	185.0	22.8	green	1,776.0	1829
3802380	240.0	26.0	green-yellow	2,304.0	2383
3802381	240.0	26.0	black	2,304.0	2383
3802382	240.0	26.0	blue	2,304.0	2383
3802383	240.0	26.0	brown	2,304.0	2383
3802384	240.0	26.0	red	2,304.0	2383
3802385	240.0	26.0	grey	2,304.0	2383
3802386	240.0	26.0	white	2,304.0	2383
3802387	240.0	26.0	orange	2,304.0	2383
3802388	240.0	26.0	yellow	2,304.0	2383
3802389	240.0	26.0	green	2,304.0	2383

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Photographs are not to scale and do not represent detailed images of the respective products.

New

LAPP KABEL H05V-K



Info

- VDE approved

Application range

- Internal wiring of devices
- Protected installation in and on lighting equipments
- Signal systems in and on plaster in tubes

Product features

- Flame retardant acc. to IEC 60332-1-2

Approvals (Norm references)



- VDE approved

Design

- Fine strands of bare copper wires
- PVC core insulation

Technical data



Based on

EN 50525 (formerly VDE 0281 / HD 21)



Specific insulation resistance

> 20 GOhm x cm



Conductor stranding

Fine wire acc. to IEC 60228 / VDE 0295 Cl.5



Minimum bending radius

6 x cable diameter



Nominal voltage

U₀/U: 300/500 V

Test voltage

2000 V



Temperature range

-30°C to +70°C

Article number	Conductor cross-section (mm ²)	Outer diameter (mm)	Core colour	Copper index (kg/km)	Weight (kg/km)
8110001	0.5	2.2	green-yellow	4.8	8.8
8110011	0.5	2.2	black	4.8	8.8
8110021	0.5	2.2	blue	4.8	8.8
8110031	0.5	2.2	brown	4.8	8.8
8110041	0.5	2.2	red	4.8	8.8
8110051	0.5	2.2	white	4.8	8.8
8110061	0.5	2.2	grey	4.8	8.8
8110091	0.5	2.2	orange	4.8	8.8
8110111	0.5	2.2	yellow	4.8	8.8
8110121	0.5	2.2	green	4.8	8.8
8110002	0.75	2.3	green-yellow	7.2	11.6
8110012	0.75	2.3	black	7.2	11.6
8110022	0.75	2.3	blue	7.2	11.6
8110032	0.75	2.3	brown	7.2	11.6
8110042	0.75	2.3	red	7.2	11.6
8110052	0.75	2.3	white	7.2	11.6
8110062	0.75	2.3	grey	7.2	11.6
8110092	0.75	2.3	orange	7.2	11.6
8110112	0.75	2.3	yellow	7.2	11.6
8110122	0.75	2.3	green	7.2	11.6
8110003	1	2.5	green-yellow	9.6	14.2
8110013	1	2.5	black	9.6	14.2
8110023	1	2.5	blue	9.6	14.2
8110033	1	2.5	brown	9.6	14.2
8110043	1	2.5	red	9.6	14.2
8110053	1	2.5	white	9.6	14.2
8110063	1	2.5	grey	9.6	14.2
8110093	1	2.5	orange	9.6	14.2
8110113	1	2.5	yellow	9.6	14.2
8110123	1	2.5	green	9.6	14.2

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Photographs are not to scale and do not represent detailed images of the respective products.

New

LAPP KABEL H07V-K



Info

- VDE approved



Application range

- Laying in tubes, exposed or buried in plaster, and in closed installation ducts
- For direct laying on racks, troughs and tubes only as potential equalisation conductor

Product features

- Flame retardant acc. to IEC 60332-1-2

Approvals (Norm references)



- VDE approved

Design

- Fine strands of bare copper wires
- PVC core insulation

Technical data



Based on
EN 50525 (formerly VDE 0281 / HD 21)



Specific insulation resistance
> 20 GOhm x cm



Conductor stranding
Fine wire acc. to IEC 60228 / VDE 0295 Cl.5



Minimum bending radius
6 x cable diameter



Nominal voltage
U₀/U: 450/750 V



Test voltage
2500 V



Temperature range
-30°C to +70°C

Article number	Conductor cross-section (mm²)	Outer diameter (mm)	Core colour	Copper index (kg/km)	Weight (kg/km)
8120001	1.5	2.9	green-yellow	14.4	20
8120011	1.5	2.9	black	14.4	20
8120021	1.5	2.9	blue	14.4	20
8120031	1.5	2.9	brown	14.4	20
8120041	1.5	2.9	red	14.4	20
8120051	1.5	2.9	white	14.4	20
8120061	1.5	2.9	grey	14.4	20
8120091	1.5	2.9	orange	14.4	20
8120111	1.5	2.9	yellow	14.4	20
8120121	1.5	2.9	green	14.4	20
8120002	2.5	3.6	green-yellow	24.0	31
8120012	2.5	3.6	black	24.0	31
8120022	2.5	3.6	blue	24.0	31
8120032	2.5	3.6	brown	24.0	31
8120042	2.5	3.6	red	24.0	31
8120052	2.5	3.6	white	24.0	31
8120062	2.5	3.6	grey	24.0	31
8120092	2.5	3.6	orange	24.0	31
8120112	2.5	3.6	yellow	24.0	31
8120122	2.5	3.6	green	24.0	31
8120003	4	4.1	green-yellow	38.4	46
8120013	4	4.1	black	38.4	46
8120023	4	4.1	blue	38.4	46
8120033	4	4.1	brown	38.4	46
8120043	4	4.1	red	38.4	46
8120053	4	4.1	white	38.4	46
8120063	4	4.1	grey	38.4	46
8120093	4	4.1	orange	38.4	46
8120113	4	4.1	yellow	38.4	46
8120123	4	4.1	green	38.4	46
8120004	6	4.7	green-yellow	57.6	65.2
8120014	6	4.7	black	57.6	65.2
8120024	6	4.7	blue	57.6	65.2
8120034	6	4.7	brown	57.6	65.2
8120044	6	4.7	red	57.6	65.2
8120054	6	4.7	white	57.6	65.2
8120064	6	4.7	grey	57.6	65.2
8120094	6	4.7	orange	57.6	65.2
8120114	6	4.7	yellow	57.6	65.2
8120124	6	4.7	green	57.6	65.2
8120005	10	6.0	green-yellow	96.0	113.2
8120015	10	6.0	black	96.0	113.2
8120025	10	6.0	blue	96.0	113.2
8120035	10	6.0	brown	96.0	113.2
8120045	10	6.0	red	96.0	113.2
8120055	10	6.0	white	96.0	113.2
8120065	10	6.0	grey	96.0	113.2
8120095	10	6.0	orange	96.0	113.2
8120115	10	6.0	yellow	96.0	113.2
8120125	10	6.0	green	96.0	113.2
8120006	16	7.1	green-yellow	153.6	173.4
8120016	16	7.1	black	153.6	173.4
8120026	16	7.1	blue	153.6	173.4
8120036	16	7.1	brown	153.6	173.4
8120046	16	7.1	red	153.6	173.4
8120056	16	7.1	white	153.6	173.4
8120066	16	7.1	grey	153.6	173.4
8120096	16	7.1	orange	153.6	173.4

Control Cabinet Single Cores

Various applications

Article number	Conductor cross-section (mm ²)	Outer diameter (mm)	Core colour	Copper index (kg/km)	Weight (kg/km)
8120116	16	7.1	yellow	153.6	173.4
8120126	16	7.1	green	153.6	173.4
8121001	25	8.8	green-yellow	240.0	269.4
8121011	25	8.8	black	240.0	269.4
8121021	25	8.8	blue	240.0	269.4
8121031	25	8.8	brown	240.0	269.4
8121041	25	8.8	red	240.0	269.4
8121051	25	8.8	white	240.0	269.4
8121061	25	8.8	grey	240.0	269.4
8121091	25	8.8	orange	240.0	269.4
8121111	25	8.8	yellow	240.0	269.4
8121121	25	8.8	green	240.0	269.4
8121002	35	9.9	green-yellow	336.0	366.4
8121012	35	9.9	black	336.0	366.4
8121022	35	9.9	blue	336.0	366.4
8121032	35	9.9	brown	336.0	366.4
8121042	35	9.9	red	336.0	366.4
8121052	35	9.9	white	336.0	366.4
8121062	35	9.9	grey	336.0	366.4
8121092	35	9.9	orange	336.0	366.4
8121112	35	9.9	yellow	336.0	366.4
8121122	35	9.9	green	336.0	366.4
8121003	50	11.8	green-yellow	480.0	517.8
8121013	50	11.8	black	480.0	517.8
8121023	50	11.8	blue	480.0	517.8
8121033	50	11.8	brown	480.0	517.8
8121043	50	11.8	red	480.0	517.8
8121053	50	11.8	white	480.0	517.8
8121063	50	11.8	grey	480.0	517.8
8121093	50	11.8	orange	480.0	517.8
8121113	50	11.8	yellow	480.0	517.8
8121123	50	11.8	green	480.0	517.8
8121004	70	13.8	green-yellow	672.0	718
8121014	70	13.8	black	672.0	718
8121024	70	13.8	blue	672.0	718
8121034	70	13.8	brown	672.0	718
8121044	70	13.8	red	672.0	718
8121054	70	13.8	white	672.0	718
8121064	70	13.8	grey	672.0	718
8121094	70	13.8	orange	672.0	718
8121114	70	13.8	yellow	672.0	718
8121124	70	13.8	green	672.0	718
8121005	95	16.0	green-yellow	912.0	975.4
8121015	95	16.0	black	912.0	975.4
8121025	95	16.0	blue	912.0	975.4
8121035	95	16.0	brown	912.0	975.4
8121045	95	16.0	red	912.0	975.4
8121055	95	16.0	white	912.0	975.4
8121065	95	16.0	grey	912.0	975.4
8121095	95	16.0	orange	912.0	975.4
8121115	95	16.0	yellow	912.0	975.4
8121125	95	16.0	green	912.0	975.4
8121006	120	17.6	green-yellow	1,152.0	1218
8121016	120	17.6	black	1,152.0	1218
8121026	120	17.6	blue	1,152.0	1218
8121036	120	17.6	brown	1,152.0	1218
8121046	120	17.6	red	1,152.0	1218
8121056	120	17.6	white	1,152.0	1218
8121066	120	17.6	grey	1,152.0	1218
8121096	120	17.6	orange	1,152.0	1218
8121116	120	17.6	yellow	1,152.0	1218
8121126	120	17.6	green	1,152.0	1218
8121007	150	19.6	green-yellow	1,440.0	1502.1
8121017	150	19.6	black	1,440.0	1502.1
8121027	150	19.6	blue	1,440.0	1502.1
8121037	150	19.6	brown	1,440.0	1502.1
8121047	150	19.6	red	1,440.0	1502.1
8121057	150	19.6	white	1,440.0	1502.1
8121067	150	19.6	grey	1,440.0	1502.1
8121097	150	19.6	orange	1,440.0	1502.1
8121117	150	19.6	yellow	1,440.0	1502.1
8121127	150	19.6	green	1,440.0	1502.1
8121008	185	21.9	green-yellow	1,776.0	1875
8121018	185	21.9	black	1,776.0	1875
8121028	185	21.9	blue	1,776.0	1875
8121038	185	21.9	brown	1,776.0	1875
8121048	185	21.9	red	1,776.0	1875
8121058	185	21.9	white	1,776.0	1875
8121068	185	21.9	grey	1,776.0	1875
8121098	185	21.9	orange	1,776.0	1875
8121118	185	21.9	yellow	1,776.0	1875
8121128	185	21.9	green	1,776.0	1875
8121009	240	24.8	green-yellow	2,304.0	2402.5
8121019	240	24.8	black	2,304.0	2402.5
8121029	240	24.8	blue	2,304.0	2402.5
8121039	240	24.8	brown	2,304.0	2402.5
8121049	240	24.8	red	2,304.0	2402.5
8121059	240	24.8	white	2,304.0	2402.5
8121069	240	24.8	grey	2,304.0	2402.5
8121099	240	24.8	orange	2,304.0	2402.5
8121119	240	24.8	yellow	2,304.0	2402.5
8121129	240	24.8	green	2,304.0	2402.5

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Info

- Un-armoured
- Overall Screen
- XLPE insulation

Technical data

Core identification code

Pair: black and white

Multipair: black and white with numbers


Based on

EN 50288-7


Specific insulation resistance

> 1000 MOhm x km


Conductor stranding

acc. to IEC 60228 Cl. 2


Minimum bending radius

6 x cable diameter


Nominal voltage

500V

<50 VAC / <75 VDC for Intrinsically Safe (IS) circuits application. See application range.


Test voltage

2000 V


Temperature range

-30°C to +90°C


Application range

- For communication, data and voice transmission signal in industrial process manufacturing plants
- Oil and Gas industry
- Petrochemical industry
- Generally used for indoor installation and suitable for wet and damp areas
- The Blue outer sheath is suitable for use with Group 2 Intrinsically Safe (IS) systems in hazardous areas where the voltage range is <50 VAC / <75 VDC

Product features

- Cable construction in acc. to EN 50288-7
- Flame retardant in acc. to IEC 60332-3-24

Approvals (Norm references)

Design

- Stranded plain annealed copper wires
- XLPE core insulation
- Pairs are collectively screened with aluminium polyester tape
- Tinned copper drain wire
- PVC outer sheath, black or blue

Article number	Number of pairs/ conductor cross section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1270000	1x2x0.5	6.9	black	14.4	48
1270001	1x2x0.5	6.9	blue	14.4	48
1270002	2x2x0.5	9.8	black	24.0	73
1270003	2x2x0.5	9.8	blue	24.0	73
1270004	4x2x0.5	11.5	black	43.2	132
1270005	4x2x0.5	11.5	blue	43.2	132
1270006	6x2x0.5	13.7	black	62.4	185
1270007	6x2x0.5	13.7	blue	62.4	185
1270008	8x2x0.5	15.2	black	81.6	223
1270009	8x2x0.5	15.2	blue	81.6	223
1270010	10x2x0.5	17.4	black	100.8	276
1270011	10x2x0.5	17.4	blue	100.8	276
1270012	12x2x0.5	17.9	black	120.0	323
1270013	12x2x0.5	17.9	blue	120.0	323
1270014	16x2x0.5	20.0	black	158.4	390
1270015	16x2x0.5	20.0	blue	158.4	390
1270016	20x2x0.5	20.8	black	196.8	499
1270017	20x2x0.5	20.8	blue	196.8	499
1270018	24x2x0.5	22.4	black	235.2	589
1270019	24x2x0.5	22.4	blue	235.2	589
1270020	30x2x0.5	26.4	black	292.8	713
1270021	30x2x0.5	26.4	blue	292.8	713
1270022	36x2x0.5	28.6	black	350.4	822
1270023	36x2x0.5	28.6	blue	350.4	822
1270030	1x2x0.75	7.3	black	19.2	57
1270031	1x2x0.75	7.3	blue	19.2	57
1270032	2x2x0.75	10.7	black	33.6	88
1270033	2x2x0.75	10.7	blue	33.6	88
1270034	4x2x0.75	12.3	black	62.4	213
1270035	4x2x0.75	12.3	blue	62.4	213
1270036	6x2x0.75	14.7	black	91.2	233
1270037	6x2x0.75	14.7	blue	91.2	233
1270038	8x2x0.75	16.7	black	120.0	285
1270039	8x2x0.75	16.7	blue	120.0	285
1270040	10x2x0.75	19.0	black	148.8	352
1270041	10x2x0.75	19.0	blue	148.8	352
1270042	12x2x0.75	19.6	black	177.6	409
1270043	12x2x0.75	19.6	blue	177.6	409
1270044	16x2x0.75	21.8	black	235.2	523
1270045	16x2x0.75	21.8	blue	235.2	523
1270046	20x2x0.75	24.5	black	292.8	646
1270047	20x2x0.75	24.5	blue	292.8	646
1270048	24x2x0.75	27.2	black	350.4	751
1270049	24x2x0.75	27.2	blue	350.4	751
1270050	30x2x0.75	28.8	black	436.8	875
1270051	30x2x0.75	28.8	blue	436.8	875
1270052	36x2x0.75	31.2	black	523.2	1126
1270053	36x2x0.75	31.2	blue	523.2	1126
1270080	1x2x1.0	7.9	black	24.0	71
1270081	1x2x1.0	7.9	blue	24.0	71
1270082	2x2x1.0	11.3	black	43.2	102
1270083	2x2x1.0	11.3	blue	43.2	102
1270084	4x2x1.0	13.2	black	81.6	195
1270085	4x2x1.0	13.2	blue	81.6	195
1270086	6x2x1.0	15.9	black	120.0	291
1270087	6x2x1.0	15.9	blue	120.0	291
1270088	8x2x1.0	17.7	black	158.4	356
1270089	8x2x1.0	17.7	blue	158.4	356
1270090	10x2x1.0	20.1	black	196.8	439
1270091	10x2x1.0	20.1	blue	196.8	439

Article number	Number of pairs/ conductor cross section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1270092	12x2x1.0	20.8	black	235.2	511
1270093	12x2x1.0	20.8	blue	235.2	511
1270094	16x2x1.0	23.2	black	312.0	653
1270095	16x2x1.0	23.2	blue	312.0	653
1270096	20x2x1.0	26.0	black	388.8	808
1270097	20x2x1.0	26.0	blue	388.8	808
1270098	24x2x1.0	29.0	black	465.6	938
1270099	24x2x1.0	29.0	blue	465.6	938
1270100	30x2x1.0	30.9	black	580.8	1074
1270101	30x2x1.0	30.9	blue	580.8	1074
1270102	36x2x1.0	33.5	black	696.0	1407
1270103	36x2x1.0	33.5	blue	696.0	1407
1270120	1x2x1.5	8.5	black	33.6	86
1270121	1x2x1.5	8.5	blue	33.6	86
1270122	2x2x1.5	12.3	black	62.4	134
1270123	2x2x1.5	12.3	blue	62.4	134
1270124	4x2x1.5	14.4	black	120.0	240
1270125	4x2x1.5	14.4	blue	120.0	240
1270126	6x2x1.5	17.4	black	177.6	337
1270127	6x2x1.5	17.4	blue	177.6	337
1270128	8x2x1.5	19.6	black	235.2	428
1270129	8x2x1.5	19.6	blue	235.2	428
1270130	10x2x1.5	22.4	black	292.8	537
1270131	10x2x1.5	22.4	blue	292.8	537
1270132	12x2x1.5	23.1	black	350.4	627
1270133	12x2x1.5	23.1	blue	350.4	627
1270134	16x2x1.5	25.8	black	465.6	798
1270135	16x2x1.5	25.8	blue	465.6	798
1270136	20x2x1.5	28.9	black	580.8	1007
1270137	20x2x1.5	28.9	blue	580.8	1007
1270138	24x2x1.5	32.4	black	696.0	1192
1270139	24x2x1.5	32.4	blue	696.0	1192
1270140	30x2x1.5	34.3	black	868.8	1473
1270141	30x2x1.5	34.3	blue	868.8	1473
1270142	36x2x1.5	37.4	black	1,041.6	1753
1270143	36x2x1.5	37.4	blue	1,041.6	1753
1270150	1x2x2.5	9.8	black	52.8	105
1270151	1x2x2.5	9.8	blue	52.8	105
1270152	2x2x2.5	14.6	black	100.8	188
1270153	2x2x2.5	14.6	blue	100.8	188
1270154	4x2x2.5	17.1	black	196.8	310
1270155	4x2x2.5	17.1	blue	196.8	310
1270156	6x2x2.5	20.6	black	292.8	440
1270157	6x2x2.5	20.6	blue	292.8	440
1270158	8x2x2.5	23.4	black	388.8	570
1270159	8x2x2.5	23.4	blue	388.8	570
1270160	10x2x2.5	26.9	black	484.8	717
1270161	10x2x2.5	26.9	blue	484.8	717
1270162	12x2x2.5	27.8	black	580.8	828
1270163	12x2x2.5	27.8	blue	580.8	828
1270164	16x2x2.5	31.0	black	772.8	1072
1270165	16x2x2.5	31.0	blue	772.8	1072
1270166	20x2x2.5	35.0	black	964.8	1338
1270167	20x2x2.5	35.0	blue	964.8	1338
1270168	24x2x2.5	39.0	black	1,156.8	1595
1270169	24x2x2.5	39.0	blue	1,156.8	1595
1270170	30x2x2.5	41.5	black	1,444.8	1946
1270171	30x2x2.5	41.5	blue	1,444.8	1946
1270172	36x2x2.5	45.0	black	1,732.8	2309
1270173	36x2x2.5	45.0	blue	1,732.8	2309

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For current information see: www.lappcableasia.lappgroup.com

ÖLFLEX® INSTRUM RE-2X(ST)Y PiMF



Application range

- For communication, data and voice transmission signal in industrial process manufacturing plants
- Oil and Gas industry
- Petrochemical industry
- Generally used for indoor installation and suitable for wet and damp areas
- The Blue outer sheath is suitable for use with Group 2 Intrinsically Safe (IS) systems in hazardous areas where the voltage range is <50 VAC / <75 VDC

Product features

- Cable construction in acc. to EN 50288-7
- Flame retardant in acc. to IEC 60332-3-24

Approvals (Norm references)



Design

- Stranded plain annealed copper wires
- XLPE core insulation
- Pairs are collectively screened with aluminium polyester tape
- Tinned copper drain wire
- PVC outer sheath, black or blue



Info

- Un-armoured
- Individual and Overall Screen
- XLPE insulation

Technical data



Core identification code

Pair: black and white

Multipair: black and white with numbers



Based on

EN 50288-7



Specific insulation resistance

> 1000 MOhm x km



Conductor stranding

acc. to IEC 60228 Cl. 2



Minimum bending radius

6 x cable diameter



Nominal voltage

500V

<50 VAC / <75 VDC for Intrinsically Safe (IS) circuits application. See application range.



Test voltage

2000 V



Temperature range

-30°C to +90°C

Article number	Number of pairs/ conductor cross section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1270200	2x2x0.5	10.8	black	33.6	89
1270201	2x2x0.5	10.8	blue	33.6	89
1270202	4x2x0.5	12.4	black	62.4	156
1270203	4x2x0.5	12.4	blue	62.4	156
1270204	6x2x0.5	14.7	black	91.2	213
1270205	6x2x0.5	14.7	blue	91.2	213
1270206	8x2x0.5	16.7	black	120.0	259
1270207	8x2x0.5	16.7	blue	120.0	259
1270208	10x2x0.5	18.9	black	148.8	323
1270209	10x2x0.5	18.9	blue	148.8	323
1270210	12x2x0.5	19.5	black	177.6	378
1270211	12x2x0.5	19.5	blue	177.6	378
1270212	16x2x0.5	21.7	black	235.2	497
1270213	16x2x0.5	21.7	blue	235.2	497
1270214	20x2x0.5	24.5	black	292.8	599
1270215	20x2x0.5	24.5	blue	292.8	599
1270216	24x2x0.5	27.1	black	350.4	693
1270217	24x2x0.5	27.1	blue	350.4	693
1270218	30x2x0.5	28.6	black	436.8	833
1270219	30x2x0.5	28.6	blue	436.8	833
1270220	36x2x0.5	31.0	black	523.2	929
1270221	36x2x0.5	31.0	blue	523.2	929
1270240	2x2x0.75	11.6	black	43.2	106
1270241	2x2x0.75	11.6	blue	43.2	106
1270242	4x2x0.75	13.5	black	81.6	195
1270243	4x2x0.75	13.5	blue	81.6	195
1270244	6x2x0.75	16.1	black	120.0	255
1270245	6x2x0.75	16.1	blue	120.0	255
1270246	8x2x0.75	18.0	black	158.4	310
1270247	8x2x0.75	18.0	blue	158.4	310
1270248	10x2x0.75	20.5	black	196.8	387
1270249	10x2x0.75	20.5	blue	196.8	387
1270250	12x2x0.75	21.3	black	235.2	451
1270251	12x2x0.75	21.3	blue	235.2	451
1270252	16x2x0.75	23.8	black	312.0	612
1270253	16x2x0.75	23.8	blue	312.0	612
1270254	20x2x0.75	26.7	black	388.8	740
1270255	20x2x0.75	26.7	blue	388.8	740
1270256	24x2x0.75	29.5	black	465.6	859
1270257	24x2x0.75	29.5	blue	465.6	859
1270258	30x2x0.75	31.2	black	580.8	1046
1270259	30x2x0.75	31.2	blue	580.8	1046
1270260	36x2x0.75	33.9	black	696.0	1284
1270261	36x2x0.75	33.9	blue	696.0	1284
1270280	2x2x1.0	12.2	black	52.8	133
1270281	2x2x1.0	12.2	blue	52.8	133
1270282	4x2x1.0	14.3	black	100.8	243
1270283	4x2x1.0	14.3	blue	100.8	243
1270284	6x2x1.0	17.1	black	148.8	319
1270285	6x2x1.0	17.1	blue	148.8	319
1270286	8x2x1.0	19.6	black	196.8	388
1270287	8x2x1.0	19.6	blue	196.8	388
1270288	10x2x1.0	22.0	black	244.8	483
1270289	10x2x1.0	22.0	blue	244.8	483
1270290	12x2x1.0	22.7	black	292.8	563

Article number	Number of pairs/ conductor cross section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1270291	12x2x1.0	22.7	blue	292.8	563
1270292	16x2x1.0	25.3	black	388.8	765
1270293	16x2x1.0	25.3	blue	388.8	765
1270294	20x2x1.0	28.3	black	484.8	924
1270295	20x2x1.0	28.3	blue	484.8	924
1270296	24x2x1.0	31.7	black	580.8	1073
1270297	24x2x1.0	31.7	blue	580.8	1073
1270298	30x2x1.0	33.5	black	724.8	1307
1270299	30x2x1.0	33.5	blue	724.8	1307
1270300	36x2x1.0	36.4	black	868.8	1604
1270301	36x2x1.0	36.4	blue	868.8	1604
1270330	2x2x1.5	13.5	black	72.0	149
1270331	2x2x1.5	13.5	blue	72.0	149
1270332	4x2x1.5	15.8	black	139.2	284
1270333	4x2x1.5	15.8	blue	139.2	284
1270334	6x2x1.5	18.9	black	206.4	361
1270335	6x2x1.5	18.9	blue	206.4	361
1270336	8x2x1.5	21.4	black	273.6	468
1270337	8x2x1.5	21.4	blue	273.6	468
1270338	10x2x1.5	24.3	black	340.8	578
1270339	10x2x1.5	24.3	blue	340.8	578
1270340	12x2x1.5	25.1	black	408.0	680
1270341	12x2x1.5	25.1	blue	408.0	680
1270342	16x2x1.5	28.0	black	542.4	897
1270343	16x2x1.5	28.0	blue	542.4	897
1270344	20x2x1.5	31.5	black	676.8	1086
1270345	20x2x1.5	31.5	blue	676.8	1086
1270346	24x2x1.5	35.1	black	811.2	1267
1270347	24x2x1.5	35.1	blue	811.2	1267
1270348	30x2x1.5	37.4	black	1,012.8	1551
1270349	30x2x1.5	37.4	blue	1,012.8	1551
1270350	36x2x1.5	40.6	black	1,214.4	1896
1270351	36x2x1.5	40.6	blue	1,214.4	1896
1270360	2x2x2.5	15.9	black	110.4	189
1270361	2x2x2.5	15.9	blue	110.4	189
1270362	4x2x2.5	18.7	black	216.0	309
1270363	4x2x2.5	18.7	blue	216.0	309
1270364	6x2x2.5	22.4	black	321.6	496
1270365	6x2x2.5	22.4	blue	321.6	496
1270366	8x2x2.5	25.4	black	427.2	667
1270367	8x2x2.5	25.4	blue	427.2	667
1270368	10x2x2.5	28.8	black	532.8	853
1270369	10x2x2.5	28.8	blue	532.8	853
1270370	12x2x2.5	30.2	black	638.4	1055
1270371	12x2x2.5	30.2	blue	638.4	1055
1270372	16x2x2.5	33.6	black	849.6	1280
1270373	16x2x2.5	33.6	blue	849.6	1280
1270374	20x2x2.5	37.9	black	1,060.8	1546
1270375	20x2x2.5	37.9	blue	1,060.8	1546
1270376	24x2x2.5	42.2	black	1,272.0	1890
1270377	24x2x2.5	42.2	blue	1,272.0	1890
1270378	30x2x2.5	45.0	black	1,588.8	2230
1270379	30x2x2.5	45.0	blue	1,588.8	2230
1270380	36x2x2.5	49.0	black	1,905.6	2699
1270381	36x2x2.5	49.0	blue	1,905.6	2699

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.



Info

- Armoured
- Overall Screen
- XLPE insulation

Technical data



Core identification code

Pair: black and white
Multipair: black and white with numbers



Based on

EN 50288-7



Specific insulation resistance

> 1000 MOhm x km



Conductor stranding

acc. to IEC 60228 Cl. 2



Minimum bending radius

10 x cable diameter



Nominal voltage

500V
<50 VAC / <75 VDC for Intrinsically Safe (IS) circuits application. See application range.



Test voltage

2000 V



Temperature range

-30 °C to +90 °C

ÖLFLEX® INSTRUM RE-2X(ST)YRY



Application range

- For communication, data and voice transmission signal in industrial process manufacturing plants
- Oil and Gas industry
- Petrochemical industry
- Generally used for outdoor installation for direct burial or installed in the duct
- The Blue outer sheath is suitable for use with Group 2 Intrinsically Safe (IS) systems in hazardous areas where the voltage range is <50 VAC / <75 VDC

Product features

- Cable construction in acc. to EN 50288-7
- Flame retardant in acc. to IEC 60332-3-24

Approvals (Norm references)



Design

- Stranded plain annealed copper wires
- XLPE core insulation
- Pairs are collectively screened with aluminium polyester tape
- Tinned copper drain wire
- PVC inner sheath, black
- Galvanized steel wire armoured
- PVC outer sheath, black or blue

Article number	Number of pairs/conductor cross section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1270400	1x2x0.5	11.3	black	14.4	218
1270401	1x2x0.5	11.3	blue	14.4	218
1270402	2x2x0.5	14.4	black	24.0	335
1270403	2x2x0.5	14.4	blue	24.0	335
1270404	4x2x0.5	16.1	black	43.2	392
1270405	4x2x0.5	16.1	blue	43.2	392
1270406	6x2x0.5	19.2	black	62.4	527
1270407	6x2x0.5	19.2	blue	62.4	527
1270408	8x2x0.5	20.8	black	81.6	722
1270409	8x2x0.5	20.8	blue	81.6	722
1270410	10x2x0.5	23.8	black	100.8	822
1270411	10x2x0.5	23.8	blue	100.8	822
1270412	12x2x0.5	24.3	black	120.0	903
1270413	12x2x0.5	24.3	blue	120.0	903
1270414	16x2x0.5	26.6	black	158.4	1311
1270415	16x2x0.5	26.6	blue	158.4	1311
1270416	20x2x0.5	29.0	black	196.8	1406
1270417	20x2x0.5	29.0	blue	196.8	1406
1270418	24x2x0.5	31.7	black	235.2	1539
1270419	24x2x0.5	31.7	blue	235.2	1539
1270420	30x2x0.5	33.3	black	292.8	1800
1270421	30x2x0.5	33.3	blue	292.8	1800
1270422	36x2x0.5	36.4	black	350.4	2061
1270423	36x2x0.5	36.4	blue	350.4	2061
1270440	1x2x0.75	11.7	black	19.2	237
1270441	1x2x0.75	11.7	blue	19.2	237
1270442	2x2x0.75	15.3	black	33.6	378
1270443	2x2x0.75	15.3	blue	33.6	378
1270444	4x2x0.75	17.6	black	62.4	526
1270445	4x2x0.75	17.6	blue	62.4	526
1270446	6x2x0.75	20.2	black	91.2	670
1270447	6x2x0.75	20.2	blue	91.2	670
1270448	8x2x0.75	22.3	black	120.0	785
1270449	8x2x0.75	22.3	blue	120.0	785
1270450	10x2x0.75	25.4	black	148.8	1045
1270451	10x2x0.75	25.4	blue	148.8	1045
1270452	12x2x0.75	26.2	black	177.6	1115
1270453	12x2x0.75	26.2	blue	177.6	1115
1270454	16x2x0.75	28.5	black	235.2	1290
1270455	16x2x0.75	28.5	blue	235.2	1290
1270456	20x2x0.75	31.3	black	292.8	1501
1270457	20x2x0.75	31.3	blue	292.8	1501
1270458	24x2x0.75	35.0	black	350.4	1975
1270459	24x2x0.75	35.0	blue	350.4	1975
1270460	30x2x0.75	36.6	black	436.8	2150
1270461	30x2x0.75	36.6	blue	436.8	2150
1270462	36x2x0.75	39.2	black	523.2	2415
1270463	36x2x0.75	39.2	blue	523.2	2415
1270480	1x2x1.0	12.3	black	24.0	255
1270481	1x2x1.0	12.3	blue	24.0	255
1270482	2x2x1.0	15.9	black	43.2	385
1270483	2x2x1.0	15.9	blue	43.2	385
1270484	4x2x1.0	18.8	black	81.6	595
1270485	4x2x1.0	18.8	blue	81.6	595
1270486	6x2x1.0	21.4	black	120.0	735
1270487	6x2x1.0	21.4	blue	120.0	735
1270488	8x2x1.0	24.1	black	158.4	995
1270489	8x2x1.0	24.1	blue	158.4	995
1270490	10x2x1.0	26.8	black	196.8	1153
1270491	10x2x1.0	26.8	blue	196.8	1153

Article number	Number of pairs/conductor cross section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1270492	12x2x1.0	27.4	black	235.2	1238
1270493	12x2x1.0	27.4	blue	235.2	1238
1270494	16x2x1.0	30.1	black	312.0	1446
1270495	16x2x1.0	30.1	blue	312.0	1446
1270496	20x2x1.0	32.8	black	388.8	1666
1270497	20x2x1.0	32.8	blue	388.8	1666
1270498	24x2x1.0	37.0	black	465.6	2172
1270499	24x2x1.0	37.0	blue	465.6	2172
1270500	30x2x1.0	38.9	black	580.8	2426
1270501	30x2x1.0	38.9	blue	580.8	2426
1270502	36x2x1.0	41.7	black	696.0	2565
1270503	36x2x1.0	41.7	blue	696.0	2565
1270530	1x2x1.5	12.9	black	33.6	281
1270531	1x2x1.5	12.9	blue	33.6	281
1270532	2x2x1.5	17.6	black	62.4	525
1270533	2x2x1.5	17.6	blue	62.4	525
1270534	4x2x1.5	20.0	black	120.0	676
1270535	4x2x1.5	20.0	blue	120.0	676
1270536	6x2x1.5	23.7	black	177.6	985
1270537	6x2x1.5	23.7	blue	177.6	985
1270538	8x2x1.5	26.2	black	235.2	1162
1270539	8x2x1.5	26.2	blue	235.2	1162
1270540	10x2x1.5	29.0	black	292.8	1354
1270541	10x2x1.5	29.0	blue	292.8	1354
1270542	12x2x1.5	29.9	black	350.4	1473
1270543	12x2x1.5	29.9	blue	350.4	1473
1270544	16x2x1.5	32.6	black	465.6	1733
1270545	16x2x1.5	32.6	blue	465.6	1733
1270546	20x2x1.5	36.7	black	580.8	2275
1270547	20x2x1.5	36.7	blue	580.8	2275
1270548	24x2x1.5	40.4	black	696.0	2612
1270549	24x2x1.5	40.4	blue	696.0	2612
1270550	30x2x1.5	42.5	black	868.8	2930
1270551	30x2x1.5	42.5	blue	868.8	2930
1270552	36x2x1.5	46.8	black	1,041.6	3740
1270553	36x2x1.5	46.8	blue	1,041.6	3740
1270570	1x2x2.5	14.4	black	52.8	350
1270571	1x2x2.5	14.4	blue	52.8	350
1270572	2x2x2.5	20.1	black	100.8	658
1270573	2x2x2.5	20.1	blue	100.8	658
1270574	4x2x2.5	23.5	black	196.8	1005
1270575	4x2x2.5	23.5	blue	196.8	1005
1270576	6x2x2.5	27.2	black	292.8	1266
1270577	6x2x2.5	27.2	blue	292.8	1266
1270578	8x2x2.5	30.2	black	388.8	1510
1270579	8x2x2.5	30.2	blue	388.8	1510
1270580	10x2x2.5	33.9	black	484.8	1818
1270581	10x2x2.5	33.9	blue	484.8	1818
1270582	12x2x2.5	35.6	black	580.8	2206
1270583	12x2x2.5	35.6	blue	580.8	2206
1270584	16x2x2.5	39.0	black	772.8	2597
1270585	16x2x2.5	39.0	blue	772.8	2597
1270586	20x2x2.5	43.2	black	964.8	3070
1270587	20x2x2.5	43.2	blue	964.8	3070
1270588	24x2x2.5	48.6	black	1,156.8	3978
1270589	24x2x2.5	48.6	blue	1,156.8	3978
1270590	30x2x2.5	51.1	black	1,444.8	4474
1270591	30x2x2.5	51.1	blue	1,444.8	4474
1270592	36x2x2.5	54.8	black	1,732.8	5060
1270593	36x2x2.5	54.8	blue	1,732.8	5060

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Photographs are not to scale and do not represent detailed images of the respective products.

For current information see: www.lappcableasia.lappgroup.com

ÖLFLEX® INSTRUM RE-2X(ST)YRY PiMF



Application range

- For communication, data and voice transmission signal in industrial process manufacturing plants
- Oil and Gas industry
- Petrochemical industry
- Generally used for outdoor installation for direct burial or installed in the duct
- The Blue outer sheath is suitable for use with Group 2 Intrinsically Safe (IS) systems in hazardous areas where the voltage range is <50 VAC / <75 VDC

Product features

- Cable construction in acc. to EN 50288-7
- Flame retardant in acc. to IEC 60332-3-24

Approvals (Norm references)



Design

- Stranded plain annealed copper wires
- XLPE core insulation
- Pairs are individually and collectively screened with aluminium polyester tape
- Tinned copper drain wire
- PVC inner sheath, black
- Galvanized steel wire armoured
- PVC outer sheath, black or blue



Info

- Armoured
- Individual and Overall Screen
- XLPE insulation

Technical data



Core identification code

Pair: black and white

Multipair: black and white with numbers



Based on

EN 50288-7



Specific insulation resistance

> 1000 MOhm x km



Conductor stranding

acc. to IEC 60228 Cl. 2



Minimum bending radius

10 x cable diameter



Nominal voltage

500V

<50 VAC / <75 VDC for Intrinsically Safe (IS) circuits application. See application range.



Test voltage

2000 V



Temperature range

-30°C to +90°C

Article number	Number of pairs/ conductor cross section (mm ²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1270600	2x2x0.5	15.4	black	33.6	349
1270601	2x2x0.5	15.4	blue	33.6	349
1270602	4x2x0.5	17.7	black	62.4	514
1270603	4x2x0.5	17.7	blue	62.4	514
1270604	6x2x0.5	20.2	black	91.2	629
1270605	6x2x0.5	20.2	blue	91.2	629
1270606	8x2x0.5	22.3	black	120.0	742
1270607	8x2x0.5	22.3	blue	120.0	742
1270608	10x2x0.5	25.3	black	148.8	999
1270609	10x2x0.5	25.3	blue	148.8	999
1270610	12x2x0.5	26.1	black	177.6	1058
1270611	12x2x0.5	26.1	blue	177.6	1058
1270612	16x2x0.5	28.3	black	235.2	1213
1270613	16x2x0.5	28.3	blue	235.2	1213
1270614	20x2x0.5	31.1	black	292.8	1404
1270615	20x2x0.5	31.1	blue	292.8	1404
1270616	24x2x0.5	34.8	black	350.4	1824
1270617	24x2x0.5	34.8	blue	350.4	1824
1270618	30x2x0.5	36.6	black	436.8	2015
1270619	30x2x0.5	36.6	blue	436.8	2015
1270620	36x2x0.5	39.0	black	523.2	2220
1270621	36x2x0.5	39.0	blue	523.2	2220
1270640	2x2x0.75	16.1	black	43.2	383
1270641	2x2x0.75	16.1	blue	43.2	383
1270642	4x2x0.75	19.0	black	81.6	579
1270643	4x2x0.75	19.0	blue	81.6	579
1270644	6x2x0.75	21.6	black	120.0	730
1270645	6x2x0.75	21.6	blue	120.0	730
1270646	8x2x0.75	24.3	black	158.4	961
1270647	8x2x0.75	24.3	blue	158.4	961
1270648	10x2x0.75	27.0	black	196.8	1130
1270649	10x2x0.75	27.0	blue	196.8	1130
1270650	12x2x0.75	27.9	black	235.2	1200
1270651	12x2x0.75	27.9	blue	235.2	1200
1270652	16x2x0.75	30.5	black	312.0	1407
1270653	16x2x0.75	30.5	blue	312.0	1407
1270654	20x2x0.75	33.3	black	388.8	1626
1270655	20x2x0.75	33.3	blue	388.8	1626
1270656	24x2x0.75	37.5	black	465.6	2110
1270657	24x2x0.75	37.5	blue	465.6	2110
1270658	30x2x0.75	39.2	black	580.8	2318
1270659	30x2x0.75	39.2	blue	580.8	2318
1270660	36x2x0.75	42.0	black	696.0	2600
1270661	36x2x0.75	42.0	blue	696.0	2600
1270680	2x2x1.0	17.5	black	52.8	497
1270681	2x2x1.0	17.5	blue	52.8	497
1270682	4x2x1.0	19.7	black	100.8	628
1270683	4x2x1.0	19.7	blue	100.8	628
1270684	6x2x1.0	23.5	black	148.8	911
1270685	6x2x1.0	23.5	blue	148.8	911
1270686	8x2x1.0	25.9	black	196.8	1084
1270687	8x2x1.0	25.9	blue	196.8	1084
1270688	10x2x1.0	28.5	black	244.8	1255
1270689	10x2x1.0	28.5	blue	244.8	1255
1270690	12x2x1.0	29.4	black	292.8	1338

Article number	Number of pairs/ conductor cross section (mm ²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1270691	12x2x1.0	29.4	blue	292.8	1338
1270692	16x2x1.0	32.0	black	388.8	1557
1270693	16x2x1.0	32.0	blue	388.8	1557
1270694	20x2x1.0	36.1	black	484.8	2037
1270695	20x2x1.0	36.1	blue	484.8	2037
1270696	24x2x1.0	39.5	black	580.8	2335
1270697	24x2x1.0	39.5	blue	580.8	2335
1270698	30x2x1.0	41.7	black	724.8	2610
1270699	30x2x1.0	41.7	blue	724.8	2610
1270700	36x2x1.0	44.7	black	868.8	2930
1270701	36x2x1.0	44.7	blue	868.8	2930
1270730	2x2x1.5	19.0	black	72.0	574
1270731	2x2x1.5	19.0	blue	72.0	574
1270732	4x2x1.5	21.3	black	139.2	731
1270733	4x2x1.5	21.3	blue	139.2	731
1270734	6x2x1.5	25.3	black	206.4	1065
1270735	6x2x1.5	25.3	blue	206.4	1065
1270736	8x2x1.5	27.9	black	273.6	1247
1270737	8x2x1.5	27.9	blue	273.6	1247
1270738	10x2x1.5	31.1	black	340.8	1473
1270739	10x2x1.5	31.1	blue	340.8	1473
1270740	12x2x1.5	31.9	black	408.0	1582
1270741	12x2x1.5	31.9	blue	408.0	1582
1270742	16x2x1.5	35.8	black	542.4	2100
1270743	16x2x1.5	35.8	blue	542.4	2100
1270744	20x2x1.5	39.4	black	676.8	2437
1270745	20x2x1.5	39.4	blue	676.8	2437
1270746	24x2x1.5	43.3	black	811.2	2803
1270747	24x2x1.5	43.3	blue	811.2	2803
1270748	30x2x1.5	46.8	black	1012.8	3560
1270749	30x2x1.5	46.8	blue	1012.8	3560
1270750	36x2x1.5	50.1	black	1214.4	4010
1270751	36x2x1.5	50.1	blue	1214.4	4010
1270760	2x2x2.5	21.4	black	110.4	710
1270761	2x2x2.5	21.4	blue	110.4	710
1270762	4x2x2.5	25.1	black	216.0	1080
1270763	4x2x2.5	25.1	blue	216.0	1080
1270764	6x2x2.5	29.0	black	321.6	1370
1270765	6x2x2.5	29.0	blue	321.6	1370
1270766	8x2x2.5	32.2	black	427.2	1621
1270767	8x2x2.5	32.2	blue	427.2	1621
1270768	10x2x2.5	37.0	black	532.8	2170
1270769	10x2x2.5	37.0	blue	532.8	2170
1270770	12x2x2.5	38.1	black	638.4	2355
1270771	12x2x2.5	38.1	blue	638.4	2355
1270772	16x2x2.5	41.8	black	849.6	2782
1270773	16x2x2.5	41.8	blue	849.6	2782
1270774	20x2x2.5	47.3	black	1,060.8	3699
1270775	20x2x2.5	47.3	blue	1,060.8	3699
1270776	24x2x2.5	52.0	black	1,272.0	4252
1270777	24x2x2.5	52.0	blue	1,272.0	4252
1270778	30x2x2.5	54.7	black	1,588.8	4757
1270779	30x2x2.5	54.7	blue	1,588.8	4757
1270780	36x2x2.5	58.9	black	1,905.6	5418
1270781	36x2x2.5	58.9	blue	1,905.6	5418

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ÖLFLEX® INSTRUM RE-Y(ST)Y



Info

- Un-armoured
- Overall Screen
- PVC (V-90HT) Heat Resistant



Application range

- For communication, data and voice transmission signal in industrial process manufacturing plants
- Oil and Gas industry
- Petrochemical industry
- Generally used for indoor installation and suitable for wet and damp areas
- The Blue outer sheath is suitable for use with Group 2 Intrinsically Safe (IS) systems in hazardous areas where the voltage range is <50 VAC / <75 VDC

Product features

- Cable construction in acc. to EN 50288-7
- Flame retardant in acc. to IEC 60332-3-24

Approvals (Norm references)



Design

- Stranded plain annealed copper wires
- PVC (V-90HT) core insulation
- Pairs are collectively screened with aluminium polyester tape
- Tinned copper drain wire
- PVC (5V-90) outer sheath, black or blue

Technical data



Core identification code

Pair: black and white
 Multipair: black and white with numbers
 Multicore: black, white, and red (3 Core)
 Multicore: black with numbers (4C and above)



Based on

EN 50288-7



Specific insulation resistance

> 10 MOhm x km



Conductor stranding

acc. to IEC 60228 Cl. 2



Minimum bending radius

6 x cable diameter



Nominal voltage

500V
 <50 VAC / <75 VDC for Intrinsically Safe (IS) circuits application. See application range.



Test voltage

2000 V



Temperature range

-30°C to +105°C

Article number	Number of pairs/ conductor cross section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1270800	1x2x0.5	6.9	black	14.4	60
1270801	1x2x0.5	6.9	blue	14.4	60
1270802	2x2x0.5	9.8	black	24.0	86
1270803	2x2x0.5	9.8	blue	24.0	86
1270824	3x2x0.5	10.6	black	33.6	125
1270825	3x2x0.5	10.6	blue	33.6	125
1270804	4x2x0.5	11.5	black	43.2	160
1270805	4x2x0.5	11.5	blue	43.2	160
1270828	5x2x0.5	12.5	black	52.8	174
1270829	5x2x0.5	12.5	blue	52.8	174
1270806	6x2x0.5	13.7	black	62.4	224
1270807	6x2x0.5	13.7	blue	62.4	224
1270808	8x2x0.5	15.2	black	81.6	270
1270809	8x2x0.5	15.2	blue	81.6	270
1270810	10x2x0.5	17.4	black	100.8	334
1270811	10x2x0.5	17.4	blue	100.8	334
1270812	12x2x0.5	17.9	black	120.0	391
1270813	12x2x0.5	17.9	blue	120.0	391
1270826	16x2x0.5	20.0	black	158.4	520
1270827	16x2x0.5	20.0	blue	158.4	520
1270816	20x2x0.5	20.8	black	196.8	604
1270817	20x2x0.5	20.8	blue	196.8	604
1270818	24x2x0.5	22.4	black	235.2	713
1270819	24x2x0.5	22.4	blue	235.2	713
1270820	30x2x0.5	26.4	black	292.8	863
1270821	30x2x0.5	26.4	blue	292.8	863
1270822	36x2x0.5	28.6	black	350.4	960
1270823	36x2x0.5	28.6	blue	350.4	960
1270840	1x2x0.75	7.3	black	19.2	69
1270841	1x2x0.75	7.3	blue	19.2	69
1270842	2x2x0.75	10.7	black	33.6	104
1270843	2x2x0.75	10.7	blue	33.6	104
1270866	3x2x0.75	11.3	black	48.0	118
1270867	3x2x0.75	11.3	blue	48.0	118
1270844	4x2x0.75	12.3	black	62.4	187
1270845	4x2x0.75	12.3	blue	62.4	187
1270868	5x2x0.75	13.6	black	76.8	223
1270869	5x2x0.75	13.6	blue	76.8	223
1270846	6x2x0.75	14.7	black	91.2	282
1270847	6x2x0.75	14.7	blue	91.2	282
1270848	8x2x0.75	16.7	black	120.0	345
1270849	8x2x0.75	16.7	blue	120.0	345
1270850	10x2x0.75	19.0	black	148.8	426
1270851	10x2x0.75	19.0	blue	148.8	426
1270852	12x2x0.75	19.6	black	177.6	495
1270853	12x2x0.75	19.6	blue	177.6	495

Article number	Number of pairs/ conductor cross section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1270864	16x2x0.75	21.8	black	235.2	685
1270865	16x2x0.75	21.8	blue	235.2	685
1270856	20x2x0.75	24.5	black	292.8	782
1270857	20x2x0.75	24.5	blue	292.8	782
1270858	24x2x0.75	27.2	black	350.4	909
1270859	24x2x0.75	27.2	blue	350.4	909
1270860	30x2x0.75	28.8	black	436.8	1059
1270861	30x2x0.75	28.8	blue	436.8	1059
1270862	36x2x0.75	31.2	black	523.2	1363
1270863	36x2x0.75	31.2	blue	523.2	1363
1270900	1x2x1.0	7.9	black	24.0	92
1270901	1x2x1.0	7.9	blue	24.0	92
1270902	2x2x1.0	11.3	black	43.2	129
1270903	2x2x1.0	11.3	blue	43.2	129
1270926	3x2x1.0	12.0	black	62.4	155
1270927	3x2x1.0	12.0	blue	62.4	155
1270904	4x2x1.0	13.2	black	81.6	234
1270905	4x2x1.0	13.2	blue	81.6	234
1270928	5x2x1.0	14.4	black	100.8	273
1270929	5x2x1.0	14.4	blue	100.8	273
1270906	6x2x1.0	15.9	black	120.0	352
1270907	6x2x1.0	15.9	blue	120.0	352
1270908	8x2x1.0	17.7	black	158.4	431
1270909	8x2x1.0	17.7	blue	158.4	431
1270910	10x2x1.0	20.1	black	196.8	532
1270911	10x2x1.0	20.1	blue	196.8	532
1270912	12x2x1.0	20.8	black	235.2	618
1270913	12x2x1.0	20.8	blue	235.2	618
1270924	16x2x1.0	23.2	black	312.0	844
1270925	16x2x1.0	23.2	blue	312.0	844
1270916	20x2x1.0	26.0	black	388.8	978
1270917	20x2x1.0	26.0	blue	388.8	978
1270918	24x2x1.0	29.0	black	465.6	1136
1270919	24x2x1.0	29.0	blue	465.6	1136
1270920	30x2x1.0	30.9	black	580.8	1300
1270921	30x2x1.0	30.9	blue	580.8	1300
1270922	36x2x1.0	33.5	black	696.0	1703
1270923	36x2x1.0	33.5	blue	696.0	1703
1270950	1x2x1.5	8.5	black	33.6	104
1270951	1x2x1.5	8.5	blue	33.6	104
1270952	2x2x1.5	12.3	black	62.4	155
1270953	2x2x1.5	12.3	blue	62.4	155
1270978	3x2x1.5	13.2	black	91.2	176
1270979	3x2x1.5	13.2	blue	91.2	176
1270954	4x2x1.5	14.4	black	120.0	290
1270955	4x2x1.5	14.4	blue	120.0	290

Special applications

Instrumentation cables

Article number	Number of pairs/ conductor cross section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1270974	5x2x1.5	16.0	black	148.8	311
1270975	5x2x1.5	16.0	blue	148.8	311
1270956	6x2x1.5	17.4	black	177.6	408
1270957	6x2x1.5	17.4	blue	177.6	408
1270958	8x2x1.5	19.6	black	235.2	518
1270959	8x2x1.5	19.6	blue	235.2	518
1270960	10x2x1.5	22.4	black	292.8	650
1270961	10x2x1.5	22.4	blue	292.8	650
1270962	12x2x1.5	23.1	black	350.4	759
1270963	12x2x1.5	23.1	blue	350.4	759
1270976	16x2x1.5	25.8	black	465.6	999
1270977	16x2x1.5	25.8	blue	465.6	999
1270966	20x2x1.5	28.9	black	580.8	1219
1270967	20x2x1.5	28.9	blue	580.8	1219
1270968	24x2x1.5	32.4	black	696.0	1443
1270969	24x2x1.5	32.4	blue	696.0	1443
1270970	30x2x1.5	34.3	black	868.8	1783
1270971	30x2x1.5	34.3	blue	868.8	1783
1270972	36x2x1.5	37.4	black	1,041.6	2122
1270973	36x2x1.5	37.4	blue	1,041.6	2122
1271000	1x2x2.5	9.8	black	52.8	132
1271001	1x2x2.5	9.8	blue	52.8	132
1271002	2x2x2.5	14.6	black	100.8	226
1271003	2x2x2.5	14.6	blue	100.8	226
1271026	3x2x2.5	15.5	black	148.8	258
1271027	3x2x2.5	15.5	blue	148.8	258
1271004	4x2x2.5	17.1	black	196.8	372
1271005	4x2x2.5	17.1	blue	196.8	372
1271006	6x2x2.5	20.6	black	292.8	583
1271007	6x2x2.5	20.6	blue	292.8	583
1271008	8x2x2.5	23.4	black	388.8	743
1271009	8x2x2.5	23.4	blue	388.8	743
1271010	10x2x2.5	26.9	black	484.8	935
1271011	10x2x2.5	26.9	blue	484.8	935
1271012	12x2x2.5	27.8	black	580.8	1111
1271013	12x2x2.5	27.8	blue	580.8	1111
1271024	16x2x2.5	31.0	black	772.8	1420
1271025	16x2x2.5	31.0	blue	772.8	1420
1271016	20x2x2.5	35.0	black	964.8	1804
1271017	20x2x2.5	35.0	blue	964.8	1804
1271018	24x2x2.5	39.0	black	1,156.8	2112
1271019	24x2x2.5	39.0	blue	1,156.8	2112
1271020	30x2x2.5	41.5	black	1,444.8	2563
1271021	30x2x2.5	41.5	blue	1,444.8	2563
1271022	36x2x2.5	45.0	black	1,732.8	3080
1271023	36x2x2.5	45.0	blue	1,732.8	3080
1271250	3x0.5	7.2	black	19.2	51
1271251	3x0.5	7.2	blue	19.2	51
1271252	4x0.5	8.0	black	24.0	63
1271253	4x0.5	8.0	blue	24.0	63
1271254	6x0.5	9.2	black	33.6	89
1271255	6x0.5	9.2	blue	33.6	89
1271268	8x0.5	10.4	black	43.2	110
1271269	8x0.5	10.4	blue	43.2	110
1271256	10x0.5	11.5	black	52.8	135
1271257	10x0.5	11.5	blue	52.8	135
1271270	12x0.5	11.9	black	62.4	158
1271271	12x0.5	11.9	blue	62.4	158
1271258	16x0.5	13.2	black	81.6	198
1271259	16x0.5	13.2	blue	81.6	198
1271260	20x0.5	14.5	black	100.8	248
1271261	20x0.5	14.5	blue	100.8	248
1271262	24x0.5	16.2	black	120.0	292
1271263	24x0.5	16.2	blue	120.0	292
1271264	30x0.5	17.0	black	148.8	360
1271265	30x0.5	17.0	blue	148.8	360
1271266	40x0.5	19.2	black	196.8	469

Article number	Number of pairs/ conductor cross section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1271267	40x0.5	19.2	blue	196.8	469
1271280	3x0.75	7.9	black	26.4	61
1271281	3x0.75	7.9	blue	26.4	61
1271282	4x0.75	8.5	black	33.6	76
1271283	4x0.75	8.5	blue	33.6	76
1271284	6x0.75	9.8	black	48.0	110
1271285	6x0.75	9.8	blue	48.0	110
1271248	8x0.75	11.1	black	62.4	140
1271249	8x0.75	11.1	blue	62.4	140
1271286	10x0.75	12.4	black	76.8	173
1271287	10x0.75	12.4	blue	76.8	173
1271298	12x0.75	12.8	black	91.2	200
1271299	12x0.75	12.8	blue	91.2	200
1271288	16x0.75	14.2	black	120.0	255
1271289	16x0.75	14.2	blue	120.0	255
1271290	20x0.75	15.9	black	148.8	315
1271291	20x0.75	15.9	blue	148.8	315
1271292	24x0.75	17.4	black	177.6	380
1271293	24x0.75	17.4	blue	177.6	380
1271294	30x0.75	18.6	black	220.8	457
1271295	30x0.75	18.6	blue	220.8	457
1271296	40x0.75	20.7	black	292.8	598
1271297	40x0.75	20.7	blue	292.8	598
1271300	3x1.5	9.0	black	48.0	95
1271301	3x1.5	9.0	blue	48.0	95
1271302	4x1.5	9.7	black	62.4	120
1271303	4x1.5	9.7	blue	62.4	120
1271304	6x1.5	11.5	black	91.2	175
1271305	6x1.5	11.5	blue	91.2	175
1271318	8x1.5	12.8	black	120.0	225
1271319	8x1.5	12.8	blue	120.0	225
1271306	10x1.5	14.5	black	148.8	275
1271307	10x1.5	14.5	blue	148.8	275
1271320	12x1.5	15.0	black	177.6	325
1271321	12x1.5	15.0	blue	177.6	325
1271308	16x1.5	16.7	black	235.2	420
1271309	16x1.5	16.7	blue	235.2	420
1271310	20x1.5	18.7	black	292.8	520
1271311	20x1.5	18.7	blue	292.8	520
1271312	24x1.5	20.6	black	350.4	624
1271313	24x1.5	20.6	blue	350.4	624
1271314	30x1.5	21.9	black	436.8	760
1271315	30x1.5	21.9	blue	436.8	760
1271316	40x1.5	24.7	black	580.8	998
1271317	40x1.5	24.7	blue	580.8	998
1271340	3x2.5	9.9	black	76.8	145
1271341	3x2.5	9.9	blue	76.8	145
1271342	4x2.5	10.9	black	100.8	182
1271343	4x2.5	10.9	blue	100.8	182
1271344	6x2.5	12.8	black	148.8	266
1271345	6x2.5	12.8	blue	148.8	266
1271358	8x2.5	14.5	black	196.8	350
1271359	8x2.5	14.5	blue	196.8	350
1271346	10x2.5	16.4	black	244.8	434
1271347	10x2.5	16.4	blue	244.8	434
1271360	12x2.5	17.0	black	292.8	510
1271361	12x2.5	17.0	blue	292.8	510
1271348	16x2.5	18.9	black	388.8	663
1271349	16x2.5	18.9	blue	388.8	663
1271350	20x2.5	21.2	black	484.8	820
1271351	20x2.5	21.2	blue	484.8	820
1271352	24x2.5	23.3	black	580.8	985
1271353	24x2.5	23.3	blue	580.8	985
1271354	30x2.5	24.9	black	724.8	1212
1271355	30x2.5	24.9	blue	724.8	1212
1271356	40x2.5	28.1	black	964.8	1595
1271357	40x2.5	28.1	blue	964.8	1595

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Info

- Un-armoured
- Individual and Overall Screen
- PVC (V-90HT) Heat Resistant

Technical data



Core identification code

Pair: black and white

Multipair: black and white with numbers



Based on

EN 50288-7



Specific insulation resistance

> 10 MOhm x km



Conductor stranding

acc. to IEC 60228 Cl. 2



Minimum bending radius

6 x cable diameter



Nominal voltage

500V

<50 VAC / <75 VDC for Intrinsically Safe (IS) circuits application. See application range.



Test voltage

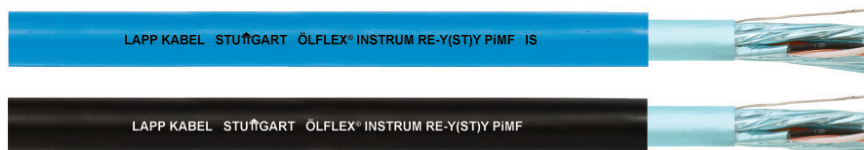
2000 V



Temperature range

-30 °C to +105 °C

ÖLFLEX® INSTRUM RE-Y(ST)Y PiMF



Application range

- For communication, data and voice transmission signal in industrial process manufacturing plants
- Oil and Gas industry
- Petrochemical industry
- Generally used for indoor installation and suitable for wet and damp areas
- The Blue outer sheath is suitable for use with Group 2 Intrinsically Safe (IS) systems in hazardous areas where the voltage range is <50 VAC / <75 VDC

Product features

- Cable construction in acc. to EN 50288-7
- Flame retardant in acc. to IEC 60332-3-24

Approvals (Norm references)



Design

- Stranded plain annealed copper wires
- PVC (V-90HT) core insulation
- Pairs are individually and collectively screened with aluminium polyester tape
- Tinned copper drain wire
- PVC (5V-90) outer sheath, black or blue

Article number	Number of pairs/conductor cross section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1271050	2x2x0.5	10.8	black	33.6	116
1271051	2x2x0.5	10.8	blue	33.6	116
1271074	3x2x0.5	11.4	black	48.0	155
1271075	3x2x0.5	11.4	blue	48.0	155
1271052	4x2x0.5	12.4	black	62.4	202
1271053	4x2x0.5	12.4	blue	62.4	202
1271076	5x2x0.5	13.6	black	76.8	238
1271077	5x2x0.5	13.6	blue	76.8	238
1271054	6x2x0.5	14.7	black	91.2	275
1271055	6x2x0.5	14.7	blue	91.2	275
1271056	8x2x0.5	16.7	black	120.0	336
1271057	8x2x0.5	16.7	blue	120.0	336
1271058	10x2x0.5	18.9	black	148.8	418
1271059	10x2x0.5	18.9	blue	148.8	418
1271060	12x2x0.5	19.5	black	177.6	490
1271061	12x2x0.5	19.5	blue	177.6	490
1271072	16x2x0.5	21.7	black	241.8	702
1271073	16x2x0.5	21.7	blue	241.8	702
1271064	20x2x0.5	24.5	black	292.8	776
1271065	20x2x0.5	24.5	blue	292.8	776
1271066	24x2x0.5	27.1	black	350.4	897
1271067	24x2x0.5	27.1	blue	350.4	897
1271068	30x2x0.5	28.6	black	436.8	1078
1271069	30x2x0.5	28.6	blue	436.8	1078
1271070	36x2x0.5	31.0	black	523.2	1330
1271071	36x2x0.5	31.0	blue	523.2	1330
1271080	2x2x0.75	11.6	black	43.2	138
1271081	2x2x0.75	11.6	blue	43.2	138
1271104	3x2x0.75	12.3	black	62.4	188
1271105	3x2x0.75	12.3	blue	62.4	188
1271082	4x2x0.75	13.5	black	81.6	252
1271083	4x2x0.75	13.5	blue	81.6	252
1271106	5x2x0.75	14.6	black	100.8	277
1271107	5x2x0.75	14.6	blue	100.8	277
1271084	6x2x0.75	16.1	black	120.0	330
1271085	6x2x0.75	16.1	blue	120.0	330
1271086	8x2x0.75	18.0	black	158.4	402
1271087	8x2x0.75	18.0	blue	158.4	402
1271088	10x2x0.75	20.5	black	196.8	501
1271089	10x2x0.75	20.5	blue	196.8	501
1271090	12x2x0.75	21.3	black	235.2	583
1271091	12x2x0.75	21.3	blue	235.2	583
1271102	16x2x0.75	23.8	black	312.0	810
1271103	16x2x0.75	23.8	blue	312.0	810
1271094	20x2x0.75	26.7	black	388.8	957
1271095	20x2x0.75	26.7	blue	388.8	957
1271096	24x2x0.75	29.5	black	465.6	1111
1271097	24x2x0.75	29.5	blue	465.6	1111
1271098	30x2x0.75	31.2	black	580.8	1353
1271099	30x2x0.75	31.2	blue	580.8	1353
1271100	36x2x0.75	33.9	black	696.0	1661
1271101	36x2x0.75	33.9	blue	696.0	1661
1271120	2x2x1.0	12.2	black	52.8	172
1271121	2x2x1.0	12.2	blue	52.8	172
1271144	3x2x1.0	13.1	black	76.8	227
1271145	3x2x1.0	13.1	blue	76.8	227
1271122	4x2x1.0	14.3	black	100.8	315
1271123	4x2x1.0	14.3	blue	100.8	315
1271146	5x2x1.0	15.7	black	124.8	365
1271147	5x2x1.0	15.7	blue	124.8	365
1271124	6x2x1.0	17.1	black	148.8	413
1271125	6x2x1.0	17.1	blue	148.8	413
1271126	8x2x1.0	19.6	black	196.8	502
1271127	8x2x1.0	19.6	blue	196.8	502
1271128	10x2x1.0	22.0	black	244.8	626

Article number	Number of pairs/conductor cross section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1271129	10x2x1.0	22.0	blue	244.8	626
1271130	12x2x1.0	22.7	black	292.8	729
1271131	12x2x1.0	22.7	blue	292.8	729
1271142	16x2x1.0	25.3	black	388.8	998
1271143	16x2x1.0	25.3	blue	388.8	998
1271134	20x2x1.0	28.3	black	484.8	1196
1271135	20x2x1.0	28.3	blue	484.8	1196
1271136	24x2x1.0	31.7	black	580.8	1389
1271137	24x2x1.0	31.7	blue	580.8	1389
1271138	30x2x1.0	33.5	black	724.8	1691
1271139	30x2x1.0	33.5	blue	724.8	1691
1271140	36x2x1.0	36.4	black	868.8	2076
1271141	36x2x1.0	36.4	blue	868.8	2076
1271160	2x2x1.5	13.5	black	72.0	193
1271161	2x2x1.5	13.5	blue	72.0	193
1271182	3x2x1.5	14.3	black	105.6	273
1271183	3x2x1.5	14.3	blue	105.6	273
1271162	4x2x1.5	15.8	black	139.2	369
1271163	4x2x1.5	15.8	blue	139.2	369
1271184	5x2x1.5	17.2	black	172.8	412
1271185	5x2x1.5	17.2	blue	172.8	412
1271164	6x2x1.5	18.9	black	206.4	468
1271165	6x2x1.5	18.9	blue	206.4	468
1271166	8x2x1.5	21.4	black	273.6	605
1271167	8x2x1.5	21.4	blue	273.6	605
1271168	10x2x1.5	24.3	black	340.8	748
1271169	10x2x1.5	24.3	blue	340.8	748
1271170	12x2x1.5	25.1	black	408.0	880
1271171	12x2x1.5	25.1	blue	408.0	880
1271186	16x2x1.5	28.0	black	542.4	1288
1271187	16x2x1.5	28.0	blue	542.4	1288
1271174	20x2x1.5	31.5	black	676.8	1408
1271175	20x2x1.5	31.5	blue	676.8	1408
1271176	24x2x1.5	35.1	black	811.2	1639
1271177	24x2x1.5	35.1	blue	811.2	1639
1271178	30x2x1.5	37.4	black	1,012.8	2008
1271179	30x2x1.5	37.4	blue	1,012.8	2008
1271180	36x2x1.5	40.6	black	1,214.4	2453
1271181	36x2x1.5	40.6	blue	1,214.4	2453
1271200	2x2x2.5	15.9	black	110.4	259
1271201	2x2x2.5	15.9	blue	110.4	259
1271222	3x2x2.5	16.9	black	163.2	291
1271223	3x2x2.5	16.9	blue	163.2	291
1271202	4x2x2.5	18.7	black	216.0	379
1271203	4x2x2.5	18.7	blue	216.0	379
1271224	5x2x2.5	20.4	black	268.8	437
1271225	5x2x2.5	20.4	blue	268.8	437
1271204	6x2x2.5	22.4	black	321.6	666
1271205	6x2x2.5	22.4	blue	321.6	666
1271206	8x2x2.5	25.4	black	427.2	847
1271207	8x2x2.5	25.4	blue	427.2	847
1271208	10x2x2.5	28.8	black	532.8	1061
1271209	10x2x2.5	28.8	blue	532.8	1061
1271210	12x2x2.5	30.2	black	638.4	1249
1271211	12x2x2.5	30.2	blue	638.4	1249
1271226	16x2x2.5	33.6	black	849.6	1735
1271227	16x2x2.5	33.6	blue	849.6	1735
1271214	20x2x2.5	37.9	black	1,060.8	1986
1271215	20x2x2.5	37.9	blue	1,060.8	1986
1271216	24x2x2.5	42.2	black	1,272.0	2371
1271217	24x2x2.5	42.2	blue	1,272.0	2371
1271218	30x2x2.5	45.0	black	1,588.8	2849
1271219	30x2x2.5	45.0	blue	1,588.8	2849
1271220	36x2x2.5	49.0	black	1,905.6	3399
1271221	36x2x2.5	49.0	blue	1,905.6	3399

Photographs are not to scale and do not represent detailed images of the respective products.

For current information see: www.lappcableasia.lappgroup.com

ÖLFLEX® INSTRUM RE-Y(ST)YRY



Info

- Armoured
- Overall Screen
- PVC (V-90HT) Heat Resistant

Application range

- For communication, data and voice transmission signal in industrial process manufacturing plants
- Oil and Gas industry
- Petrochemical industry
- Generally used for outdoor installation for direct burial or installed in the duct
- The Blue outer sheath is suitable for use with Group 2 Intrinsically Safe (IS) systems in hazardous areas where the voltage range is <50 VAC / <75 VDC

Product features

- Cable construction in acc. to EN 50288-7
- Flame retardant in acc. to IEC 60332-3-24

Approvals (Norm references)



Design

- Stranded plain annealed copper wires
- PVC (V-90HT) core insulation
- Pairs are collectively screened with aluminium polyester tape
- Tinned copper drain wire
- PVC inner sheath, black
- Galvanized steel wire armoured
- PVC (5V-90) outer sheath, black or blue

Technical data



Core identification code

Pair: black and white
 Multipair: black and white with numbers
 Multicore: black, white, and red (3 Core)
 Multicore: black with numbers (4C and above)



Based on

EN 50288-7



Specific insulation resistance

> 10 MOhm x km



Conductor stranding

acc. to IEC 60228 Cl. 2



Minimum bending radius

10 x cable diameter



Nominal voltage

500V
 <50 VAC / <75 VDC for Intrinsically Safe (IS) circuits application. See application range.



Test voltage

2000 V



Temperature range

-30°C to +105°C

Article number	Number of pairs/ conductor cross section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1271380	1x2x0.5	11.3	black	14.4	248
1271381	1x2x0.5	11.3	blue	14.4	248
1271382	2x2x0.5	14.4	black	24.0	365
1271383	2x2x0.5	14.4	blue	24.0	365
1271404	3x2x0.5	15.2	black	33.6	406
1271405	3x2x0.5	15.2	blue	33.6	406
1271384	4x2x0.5	16.1	black	43.2	455
1271385	4x2x0.5	16.1	blue	43.2	455
1271386	6x2x0.5	19.2	black	62.4	611
1271387	6x2x0.5	19.2	blue	62.4	611
1271388	8x2x0.5	20.8	black	81.6	836
1271389	8x2x0.5	20.8	blue	81.6	836
1271390	10x2x0.5	23.8	black	100.8	952
1271391	10x2x0.5	23.8	blue	100.8	952
1271392	12x2x0.5	24.3	black	120.0	1045
1271393	12x2x0.5	24.3	blue	120.0	1045
1271406	16x2x0.5	26.6	black	158.4	1535
1271407	16x2x0.5	26.6	blue	158.4	1535
1271396	20x2x0.5	29.0	black	196.8	1628
1271397	20x2x0.5	29.0	blue	196.8	1628
1271398	24x2x0.5	31.7	black	235.2	1782
1271399	24x2x0.5	31.7	blue	235.2	1782
1271400	30x2x0.5	33.3	black	292.8	2085
1271401	30x2x0.5	33.3	blue	292.8	2085
1271402	36x2x0.5	36.4	black	350.4	2108
1271403	36x2x0.5	36.4	blue	350.4	2108
1271420	1x2x0.75	11.7	black	19.2	264
1271421	1x2x0.75	11.7	blue	19.2	264
1271422	2x2x0.75	15.3	black	33.6	395
1271423	2x2x0.75	15.3	blue	33.6	395
1271444	3x2x0.75	15.9	black	48.1	486
1271445	3x2x0.75	15.9	blue	48.1	486
1271424	4x2x0.75	17.6	black	62.4	603
1271425	4x2x0.75	17.6	blue	62.4	603
1271426	6x2x0.75	20.2	black	91.2	831
1271427	6x2x0.75	20.2	blue	91.2	831
1271428	8x2x0.75	22.3	black	120.0	946
1271429	8x2x0.75	22.3	blue	120.0	946
1271430	10x2x0.75	25.4	black	148.8	1276
1271431	10x2x0.75	25.4	blue	148.8	1276
1271432	12x2x0.75	26.2	black	177.6	1414
1271433	12x2x0.75	26.2	blue	177.6	1414
1271446	16x2x0.75	28.5	black	235.2	1580
1271447	16x2x0.75	28.5	blue	235.2	1580
1271436	20x2x0.75	31.3	black	292.8	1898
1271437	20x2x0.75	31.3	blue	292.8	1898

Article number	Number of pairs/ conductor cross section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1271438	24x2x0.75	35.0	black	350.4	2036
1271439	24x2x0.75	35.0	blue	350.4	2036
1271440	30x2x0.75	36.6	black	436.8	2475
1271441	30x2x0.75	36.6	blue	436.8	2475
1271442	36x2x0.75	39.2	black	523.2	3168
1271443	36x2x0.75	39.2	blue	523.2	3168
1271460	1x2x1.0	12.3	black	24.0	270
1271461	1x2x1.0	12.3	blue	24.0	270
1271462	2x2x1.0	15.9	black	43.2	429
1271463	2x2x1.0	15.9	blue	43.2	429
1271486	3x2x1.0	17.3	black	62.4	569
1271487	3x2x1.0	17.3	blue	62.4	569
1271464	4x2x1.0	18.8	black	81.6	753
1271465	4x2x1.0	18.8	blue	81.6	753
1271466	6x2x1.0	21.4	black	120.0	1038
1271467	6x2x1.0	21.4	blue	120.0	1038
1271468	8x2x1.0	24.1	black	158.4	1183
1271469	8x2x1.0	24.1	blue	158.4	1183
1271470	10x2x1.0	26.8	black	196.8	1595
1271471	10x2x1.0	26.8	blue	196.8	1595
1271472	12x2x1.0	27.4	black	235.2	1767
1271473	12x2x1.0	27.4	blue	235.2	1767
1271484	16x2x1.0	30.1	black	312.0	1932
1271485	16x2x1.0	30.1	blue	312.0	1932
1271476	20x2x1.0	32.8	black	388.8	2372
1271477	20x2x1.0	32.8	blue	388.8	2372
1271478	24x2x1.0	37.0	black	465.6	2578
1271479	24x2x1.0	37.0	blue	465.6	2578
1271480	30x2x1.0	38.9	black	580.8	3094
1271481	30x2x1.0	38.9	blue	580.8	3094
1271482	36x2x1.0	41.7	black	696.0	3960
1271483	36x2x1.0	41.7	blue	696.0	3960
1271500	1x2x1.5	12.9	black	33.6	336
1271501	1x2x1.5	12.9	blue	33.6	336
1271502	2x2x1.5	17.6	black	62.4	589
1271503	2x2x1.5	17.6	blue	62.4	589
1271524	3x2x1.5	18.7	black	91.2	675
1271525	3x2x1.5	18.7	blue	91.2	675
1271504	4x2x1.5	20.0	black	120.0	849
1271505	4x2x1.5	20.0	blue	120.0	849
1271506	6x2x1.5	23.7	black	177.6	1034
1271507	6x2x1.5	23.7	blue	177.6	1034
1271508	8x2x1.5	26.2	black	235.2	1194
1271509	8x2x1.5	26.2	blue	235.2	1194
1271510	10x2x1.5	29.0	black	292.8	1606
1271511	10x2x1.5	29.0	blue	292.8	1606

Article number	Number of pairs/ conductor cross section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1271512	12x2x1.5	29.9	black	350.4	1799
1271513	12x2x1.5	29.9	blue	350.4	1799
1271526	16x2x1.5	32.6	black	465.6	2019
1271527	16x2x1.5	32.6	blue	465.6	2019
1271516	20x2x1.5	36.7	black	580.8	2492
1271517	20x2x1.5	36.7	blue	580.8	2492
1271518	24x2x1.5	40.4	black	696.0	3080
1271519	24x2x1.5	40.4	blue	696.0	3080
1271520	30x2x1.5	42.5	black	868.8	3575
1271521	30x2x1.5	42.5	blue	868.8	3575
1271522	36x2x1.5	46.8	black	1,041.6	4147
1271523	36x2x1.5	46.8	blue	1,041.6	4147
1271550	1x2x2.5	14.4	black	52.8	407
1271551	1x2x2.5	14.4	blue	52.8	407
1271552	2x2x2.5	20.1	black	100.8	689
1271553	2x2x2.5	20.1	blue	100.8	689
1271576	3x2x2.5	21.0	black	148.8	855
1271577	3x2x2.5	21.0	blue	148.8	855
1271554	4x2x2.5	23.5	black	196.8	1111
1271555	4x2x2.5	23.5	blue	196.8	1111
1271556	6x2x2.5	27.2	black	292.8	1518
1271557	6x2x2.5	27.2	blue	292.8	1518
1271558	8x2x2.5	30.2	black	388.8	1793
1271559	8x2x2.5	30.2	blue	388.8	1793
1271560	10x2x2.5	33.9	black	484.8	2145
1271561	10x2x2.5	33.9	blue	484.8	2145
1271562	12x2x2.5	35.6	black	580.8	2437
1271563	12x2x2.5	35.6	blue	580.8	2437
1271574	16x2x2.5	39.0	black	772.8	3058
1271575	16x2x2.5	39.0	blue	772.8	3058
1271566	20x2x2.5	43.2	black	964.8	3740
1271567	20x2x2.5	43.2	blue	964.8	3740
1271568	24x2x2.5	48.6	black	1,156.8	4180
1271569	24x2x2.5	48.6	blue	1,156.8	4180
1271570	30x2x2.5	51.1	black	1,444.8	4785
1271571	30x2x2.5	51.1	blue	1,444.8	4785
1271572	36x2x2.5	54.8	black	1,732.8	5280
1271573	36x2x2.5	54.8	blue	1,732.8	5280
1271800	3x0.5	11.6	black	19.2	280
1271801	3x0.5	11.6	blue	19.2	280
1271802	4x0.5	12.4	black	24.0	335
1271803	4x0.5	12.4	blue	24.0	335
1271804	6x0.5	13.6	black	33.6	360
1271805	6x0.5	13.6	blue	33.6	360
1271818	8x0.5	15.0	black	43.2	445
1271819	8x0.5	15.0	blue	43.2	445
1271806	10x0.5	16.1	black	52.8	510
1271807	10x0.5	16.1	blue	52.8	510
1271820	12x0.5	16.5	black	62.4	575
1271821	12x0.5	16.5	blue	62.4	575
1271808	16x0.5	18.7	black	81.6	710
1271809	16x0.5	18.7	blue	81.6	710
1271810	20x0.5	20.0	black	100.8	960
1271811	20x0.5	20.0	blue	100.8	960
1271812	24x0.5	21.9	black	120.0	1160
1271813	24x0.5	21.9	blue	120.0	1160
1271814	30x0.5	23.4	black	148.8	1280
1271815	30x0.5	23.4	blue	148.8	1280
1271816	40x0.5	25.8	black	196.8	1440
1271817	40x0.5	25.8	blue	196.8	1440
1271830	3x0.75	12.3	black	26.4	305
1271831	3x0.75	12.3	blue	26.4	305
1271832	4x0.75	12.9	black	33.6	355

Article number	Number of pairs/ conductor cross section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1271833	4x0.75	12.9	blue	33.6	355
1271834	6x0.75	14.5	black	48.0	400
1271835	6x0.75	14.5	blue	48.0	400
1271848	8x0.75	15.7	black	62.4	502
1271849	8x0.75	15.7	blue	62.4	502
1271836	10x0.75	17.9	black	76.8	565
1271837	10x0.75	17.9	blue	76.8	565
1271850	12x0.75	18.3	black	91.2	615
1271851	12x0.75	18.3	blue	91.2	615
1271838	16x0.75	19.7	black	120.0	760
1271839	16x0.75	19.7	blue	120.0	760
1271840	20x0.75	21.4	black	148.8	950
1271841	20x0.75	21.4	blue	148.8	950
1271842	24x0.75	23.8	black	177.6	1120
1271843	24x0.75	23.8	blue	177.6	1120
1271844	30x0.75	25.0	black	220.8	1380
1271845	30x0.75	25.0	blue	220.8	1380
1271846	40x0.75	27.3	black	292.8	1590
1271847	40x0.75	27.3	blue	292.8	1590
1271860	3x1.5	13.3	black	48.0	380
1271861	3x1.5	13.3	blue	48.0	380
1271862	4x1.5	14.1	black	62.4	420
1271863	4x1.5	14.1	blue	62.4	420
1271864	6x1.5	16.1	black	91.2	540
1271865	6x1.5	16.1	blue	91.2	540
1271879	8x1.5	18.3	black	120.0	618
1271880	8x1.5	18.3	blue	120.0	618
1271866	10x1.5	20.0	black	148.8	750
1271867	10x1.5	20.0	blue	148.8	750
1271881	12x1.5	20.5	black	177.6	828
1271882	12x1.5	20.5	blue	177.6	828
1271868	16x1.5	22.4	black	235.2	1010
1271869	16x1.5	22.4	blue	235.2	1010
1271870	20x1.5	25.1	black	292.8	1260
1271871	20x1.5	25.1	blue	292.8	1260
1271872	24x1.5	27.2	black	350.4	1450
1271873	24x1.5	27.2	blue	350.4	1450
1271874	30x1.5	28.5	black	436.8	1675
1271875	30x1.5	28.5	blue	436.8	1675
1271876	40x1.5	31.5	black	580.8	2140
1271877	40x1.5	31.5	blue	580.8	2140
1271900	3x2.5	15.1	black	76.8	500
1271901	3x2.5	15.1	blue	76.8	500
1271902	4x2.5	16.0	black	100.8	535
1271903	4x2.5	16.0	blue	100.8	535
1271904	6x2.5	19.1	black	148.8	780
1271905	6x2.5	19.1	blue	148.8	780
1271918	8x2.5	20.7	black	196.8	856
1271919	8x2.5	20.7	blue	196.8	856
1271906	10x2.5	23.6	black	244.8	940
1271907	10x2.5	23.6	blue	244.8	940
1271920	12x2.5	24.2	black	292.8	1285
1271921	12x2.5	24.2	blue	292.8	1285
1271908	16x2.5	26.5	black	388.8	1630
1271909	16x2.5	26.5	blue	388.8	1630
1271910	20x2.5	28.8	black	484.8	1950
1271911	20x2.5	28.8	blue	484.8	1950
1271912	24x2.5	31.5	black	580.8	2215
1271913	24x2.5	31.5	blue	580.8	2215
1271914	30x2.5	33.2	black	724.8	2680
1271915	30x2.5	33.2	blue	724.8	2680
1271916	40x2.5	37.8	black	964.8	3455
1271917	40x2.5	37.8	blue	964.8	3455

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Photographs are not to scale and do not represent detailed images of the respective products.

ÖLFLEX® INSTRUM RE-Y(ST)YRY PIMF



Application range

- For communication, data and voice transmission signal in industrial process manufacturing plants
- Oil and Gas industry
- Petrochemical industry
- Generally used for outdoor installation for direct burial or installed in the duct
- The Blue outer sheath is suitable for use with Group 2 Intrinsically Safe (IS) systems in hazardous areas where the voltage range is <50 VAC / <75 VDC

Product features

- Cable construction in acc. to EN 50288-7
- Flame retardant in acc. to IEC 60332-3-24

Approvals (Norm references)



Design

- Stranded plain annealed copper wires
- PVC (V-90HT) core insulation
- Pairs are individually and collectively screened with aluminium polyester tape
- Tinned copper drain wire
- PVC inner sheath, black
- Galvanized steel wire armoured
- PVC (5V-90) outer sheath, black or blue



Info

- Armoured
- Individual and Overall Screen
- PVC (V-90HT) Heat Resistant

Technical data



Core identification code

Pair: black and white
Multipair: black and white with numbers



Based on

EN 50288-7



Specific insulation resistance

> 10 MOhm x km



Conductor stranding

acc. to IEC 60228 Cl. 2



Minimum bending radius

10 x cable diameter



Nominal voltage

500V
<50 VAC / <75 VDC for Intrinsically Safe (IS) circuits application. See application range.



Test voltage

2000 V



Temperature range

-30°C to +105°C

Article number	Number of pairs/conductor cross section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1271600	2x2x0.5	15.4	black	33.6	413
1271601	2x2x0.5	15.4	blue	33.6	413
1271624	3x2x0.5	16.0	black	48.0	495
1271625	3x2x0.5	16.0	blue	48.0	495
1271602	4x2x0.5	17.7	black	62.4	623
1271603	4x2x0.5	17.7	blue	62.4	623
1271626	5x2x0.5	19.1	black	76.8	734
1271627	5x2x0.5	19.1	blue	76.8	734
1271604	6x2x0.5	20.2	black	91.2	847
1271605	6x2x0.5	20.2	blue	91.2	847
1271606	8x2x0.5	22.3	black	120.0	968
1271607	8x2x0.5	22.3	blue	120.0	968
1271608	10x2x0.5	25.3	black	148.8	1309
1271609	10x2x0.5	25.3	blue	148.8	1309
1271610	12x2x0.5	26.1	black	177.6	1447
1271611	12x2x0.5	26.1	blue	177.6	1447
1271622	16x2x0.5	28.3	black	235.2	1623
1271623	16x2x0.5	28.3	blue	235.2	1623
1271614	20x2x0.5	31.1	black	292.8	1942
1271615	20x2x0.5	31.1	blue	292.8	1942
1271616	24x2x0.5	34.8	black	350.4	2112
1271617	24x2x0.5	34.8	blue	350.4	2112
1271618	30x2x0.5	36.6	black	436.8	2640
1271619	30x2x0.5	36.6	blue	436.8	2640
1271620	36x2x0.5	39.0	black	523.2	3238
1271621	36x2x0.5	39.0	blue	523.2	3238
1271630	2x2x0.75	16.1	black	43.2	451
1271631	2x2x0.75	16.1	blue	43.2	451
1271654	3x2x0.75	17.5	black	62.4	565
1271655	3x2x0.75	17.5	blue	62.4	565
1271632	4x2x0.75	19.0	black	81.6	717
1271633	4x2x0.75	19.0	blue	81.6	717
1271656	5x2x0.75	20.1	black	100.8	838
1271657	5x2x0.75	20.1	blue	100.8	838
1271634	6x2x0.75	21.6	black	120.0	952
1271635	6x2x0.75	21.6	blue	120.0	952
1271636	8x2x0.75	24.3	black	158.4	1084
1271637	8x2x0.75	24.3	blue	158.4	1084
1271638	10x2x0.75	27.0	black	196.8	1458
1271639	10x2x0.75	27.0	blue	196.8	1458
1271640	12x2x0.75	27.9	black	235.2	1612
1271641	12x2x0.75	27.9	blue	235.2	1612
1271652	16x2x0.75	30.5	black	312.0	1827
1271653	16x2x0.75	30.5	blue	312.0	1827
1271644	20x2x0.75	33.3	black	388.8	2525
1271645	20x2x0.75	33.3	blue	388.8	2525
1271646	24x2x0.75	37.5	black	465.6	2772
1271647	24x2x0.75	37.5	blue	465.6	2772
1271648	30x2x0.75	39.2	black	580.8	3245
1271649	30x2x0.75	39.2	blue	580.8	3245
1271650	36x2x0.75	42.0	black	696.0	3762
1271651	36x2x0.75	42.0	blue	696.0	3762
1271680	2x2x1.0	17.5	black	52.8	564
1271681	2x2x1.0	17.5	blue	52.8	564
1271704	3x2x1.0	18.6	black	76.8	710
1271705	3x2x1.0	18.6	blue	76.8	710
1271682	4x2x1.0	19.7	black	100.8	879
1271683	4x2x1.0	19.7	blue	100.8	879
1271706	5x2x1.0	21.0	black	124.8	998
1271707	5x2x1.0	21.0	blue	124.8	998
1271684	6x2x1.0	23.5	black	148.8	1189
1271685	6x2x1.0	23.5	blue	148.8	1189
1271686	8x2x1.0	25.9	black	196.8	1354
1271687	8x2x1.0	25.9	blue	196.8	1354
1271688	10x2x1.0	28.5	black	244.8	1822

Article number	Number of pairs/conductor cross section (mm²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
1271689	10x2x1.0	28.5	blue	244.8	1822
1271690	12x2x1.0	29.4	black	292.8	2014
1271691	12x2x1.0	29.4	blue	292.8	2014
1271702	16x2x1.0	32.0	black	388.8	2284
1271703	16x2x1.0	32.0	blue	388.8	2284
1271694	20x2x1.0	36.1	black	484.8	3156
1271695	20x2x1.0	36.1	blue	484.8	3156
1271696	24x2x1.0	39.5	black	580.8	3465
1271697	24x2x1.0	39.5	blue	580.8	3465
1271698	30x2x1.0	41.7	black	724.8	4056
1271699	30x2x1.0	41.7	blue	724.8	4056
1271700	36x2x1.0	44.7	black	868.8	4703
1271701	36x2x1.0	44.7	blue	868.8	4703
1271720	2x2x1.5	19.0	black	72.0	644
1271721	2x2x1.5	19.0	blue	72.0	644
1271746	3x2x1.5	19.8	black	105.6	788
1271747	3x2x1.5	19.8	blue	105.6	788
1271722	4x2x1.5	21.3	black	139.2	970
1271723	4x2x1.5	21.3	blue	139.2	970
1271742	5x2x1.5	23.6	black	172.8	1128
1271743	5x2x1.5	23.6	blue	172.8	1128
1271724	6x2x1.5	25.3	black	206.4	1315
1271725	6x2x1.5	25.3	blue	206.4	1315
1271726	8x2x1.5	27.9	black	273.6	1584
1271727	8x2x1.5	27.9	blue	273.6	1584
1271728	10x2x1.5	31.1	black	340.8	1865
1271729	10x2x1.5	31.1	blue	340.8	1865
1271730	12x2x1.5	31.9	black	408.0	2085
1271731	12x2x1.5	31.9	blue	408.0	2085
1271744	16x2x1.5	35.8	black	542.4	2638
1271745	16x2x1.5	35.8	blue	542.4	2638
1271734	20x2x1.5	39.4	black	676.8	3234
1271735	20x2x1.5	39.4	blue	676.8	3234
1271736	24x2x1.5	43.3	black	811.2	3542
1271737	24x2x1.5	43.3	blue	811.2	3542
1271738	30x2x1.5	46.8	black	1,012.8	4406
1271739	30x2x1.5	46.8	blue	1,012.8	4406
1271740	36x2x1.5	50.1	black	1,214.4	5418
1271741	36x2x1.5	50.1	blue	1,214.4	5418
1271760	2x2x2.5	21.4	black	110.4	803
1271761	2x2x2.5	21.4	blue	110.4	803
1271784	3x2x2.5	22.6	black	163.2	956
1271785	3x2x2.5	22.6	blue	163.2	956
1271762	4x2x2.5	25.1	black	216.0	1139
1271763	4x2x2.5	25.1	blue	216.0	1139
1271786	5x2x2.5	27.0	black	268.8	1386
1271787	5x2x2.5	27.0	blue	268.8	1386
1271764	6x2x2.5	29.0	black	321.6	1705
1271765	6x2x2.5	29.0	blue	321.6	1705
1271766	8x2x2.5	32.2	black	427.2	1997
1271767	8x2x2.5	32.2	blue	427.2	1997
1271768	10x2x2.5	37.0	black	532.8	2376
1271769	10x2x2.5	37.0	blue	532.8	2376
1271770	12x2x2.5	38.1	black	638.4	2717
1271771	12x2x2.5	38.1	blue	638.4	2717
1271782	16x2x2.5	41.8	black	849.6	3412
1271783	16x2x2.5	41.8	blue	849.6	3412
1271774	20x2x2.5	47.3	black	1,060.8	4052
1271775	20x2x2.5	47.3	blue	1,060.8	4052
1271776	24x2x2.5	52.0	black	1,272.0	4664
1271777	24x2x2.5	52.0	blue	1,272.0	4664
1271778	30x2x2.5	54.7	black	1,588.8	5506
1271779	30x2x2.5	54.7	blue	1,588.8	5506
1271780	36x2x2.5	58.9	black	1,905.6	6334
1271781	36x2x2.5	58.9	blue	1,905.6	6334

Photographs are not to scale and do not represent detailed images of the respective products.

For current information see: www.lappcableasia.lappgroup.com

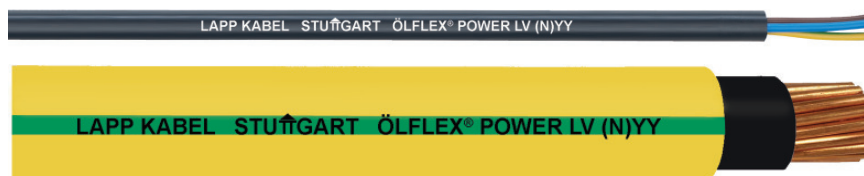
ÖLFLEX® POWER LV (N)YY

Low voltage power cables



Info

- Low voltage power cable 0.6/1 kV
- Unarmoured, PVC/PVC



Application range

- For main power distribution and lighting circuits in residential, industrial and commercial areas
- Power and control circuit
- Telecom power supply

Product features

- Cable construction in acc. to IEC 60502-1
- Flame-retardant acc. to IEC 60332-1-2
- UV-resistant outer sheath for outdoor application

Approvals (Norm references)



Design

- Stranded or solid plain annealed copper wire in circular or sectorial shape conductor
- PVC core insulation
- PVC outer sheath
- Sheath colour, gn/ye for single core and black for multicore

Technical data

- Core identification code**
acc. to BS 7671:2004
- Based on**
IEC 60502-1
- Specific insulation resistance**
> 10 GOhm x cm
- Conductor stranding**
acc. to IEC 60228 Cl.1 and Cl.2
- Minimum bending radius**
Fixed installation: 8 x cable diameter
- Nominal voltage**
U₀/U: 600/1000 V
- Test voltage**
3500 V
- Temperature range**
Fixed installation: -20°C to +70°C

Article number	Number of cores and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
Solid Conductor (Class 1)				
3800100	1 x 1.5	6.0	14.0	52
3800108	1 x 2.5	6.4	22.5	65
3800116	1 x 4	7.3	36.0	95
3800102	2 x 1.5	10.0	28.5	135
3800110	2 x 2.5	10.8	45.8	170
3800118	2 x 4	12.5	73.6	240
3800104	3 x 1.5	10.5	42.8	160
3800112	3 x 2.5	11.4	68.6	200
3800120	3 x 4	13.2	110.4	290
3800106	4 x 1.5	11.3	57.0	185
3800114	4 x 2.5	12.3	91.5	240
3800122	4 x 4	14.4	147.2	350
3804001	5 x 1.5	12.2	69.8	203
3804003	5 x 2.5	13.4	115.0	275
3804004	5 x 4	16.0	184.0	408
Stranded Conductor (Class 2)				
3800101	1 x 1.5	6.2	14.0	55
3800109	1 x 2.5	6.7	22.5	70
3800117	1 x 4	7.6	36.0	100
3800124	1 x 6	8.2	54.0	125
3800128	1 x 10	9.2	90.0	175
3800133	1 x 16	10.2	144.0	240
3800138	1 x 25	11.9	228.0	350
3800146	1 x 35	13.1	317.8	460
3800154	1 x 50	14.8	454.0	595
3800159	1 x 70	16.6	635.6	810
3800164	1 x 95	19.2	862.6	1110
3800103	2 x 1.5	10.4	28.5	145
3800111	2 x 2.5	11.5	45.8	180
3800119	2 x 4	13.5	73.6	255
3800125	2 x 6	15.0	110.4	285
3800129	2 x 10	17.0	184.0	395
3800134	2 x 16	19.0	294.4	590
3800139	2 x 25	22.0	465.0	900
3800148	2 x 35 (S)	20.0	644.0	930
3800155	2 x 50 (S)	23.0	920.0	1260
3800160	2 x 70 (S)	26.0	1,288.0	1700
3800165	2 x 95 (S)	30.0	1,748.0	2310
3800105	3 x 1.5	11.5	42.8	165
3800113	3 x 2.5	12.0	68.6	210
3800121	3 x 4	14.0	110.4	305
3800126	3 x 6	15.5	165.6	370
3800135	3 x 16	20.0	441.6	740
3800141	3 x 25	24.0	697.5	1160

Article number	Number of cores and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3800150	3 x 35 (S)	23.0	966.0	1330
3800156	3 x 50 (S)	26.0	1,380.0	1750
3800161	3 x 70 (S)	29.0	1,932.0	2435
3800166	3 x 95 (S)	35.0	2,622.0	3360
3800107	4 x 1.5	12.0	57.0	200
3800115	4 x 2.5	13.0	91.5	255
3800123	4 x 4	15.5	147.2	375
3800127	4 x 6	17.0	220.8	455
3800132	4 x 10	19.0	368.0	665
3800137	4 x 16	22.0	588.8	930
3800144	4 x 25	25.6	930.0	1465
3800151	3 x 35 + 16	24.7	1,116.2	1570
3800153	4 x 35 (S)	26.0	1,288.0	1740
3800157	3 x 50 + 25	28.3	1,544.8	2220
3800158	4 x 50 (S)	29.0	1,840.0	2320
3800162	3 x 70 + 35	32.0	2,219.3	2930
3800163	4 x 70 (S)	33.0	2,576.0	3215
3800167	3 x 95 + 50	37.5	3,066.7	3530
3800168	4 x 95 (S)	39.0	3,496.0	4400
3804002	5 x 1.5	12.4	69.8	205
3800970	5 x 2.5	13.4	115.0	275
3800971	5 x 4	16.0	184.0	408
3804005	5 x 6	17.5	276.0	545
3804006	5 x 10	20.0	460.0	811
3804007	5 x 16	23.0	736.0	1195
3804008	5 x 25	27.6	1,162.5	1814
3800972	5 x 35	31.0	1,627.5	2450
3804009	7 x 1.5	13.2	97.7	260
3804010	12 x 1.5	17.0	167.4	408
3804011	14 x 1.5	17.7	195.3	463
3804012	16 x 1.5	18.7	223.2	518
3804013	19 x 1.5	19.6	265.1	597
3804014	24 x 1.5	22.8	334.8	742
3804015	27 x 1.5	23.3	376.7	817
3804016	37 x 1.5	26.1	516.2	1077
3804017	48 x 1.5	30.0	669.6	1382
3804018	7 x 2.5	14.5	161.0	356
3804019	12 x 2.5	18.7	276.0	571
3804020	14 x 2.5	19.6	322.0	650
3804021	16 x 2.5	20.7	368.0	731
3804022	19 x 2.5	21.8	437.0	848
3804023	24 x 2.5	25.4	552.0	1058
3804024	27 x 2.5	26.0	621.0	1170
3804025	37 x 2.5	29.0	851.0	1556
3804026	48 x 2.5	33.6	1,104.0	2017

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.

ÖLFLEX® POWER LV (N)YYRY

Low voltage power cables

LAPP KABEL STUTTGART ÖLFLEX® POWER LV (N)YYRY



Info

- Low voltage power cable 0.6/1 kV
- Armoured, PVC/PVC/SWA/PVC

Application range

- For main power distribution and lighting circuits in residential, industrial and commercial areas
- Power and control circuit
- Telecom power supply
- Suitable for direct burial installations as well as in air or ducts

Product features

- Cable construction in acc. to IEC 60502-1
- Flame-retardant acc. to IEC 60332-1-2
- UV-resistant outer sheath for outdoor application

Approvals (Norm references)



Design

- Stranded plain annealed copper wires in circular shape conductor
- PVC core insulation
- PVC inner sheath, black
- Galvanized steel wire armoured
- PVC outer sheath, black

Technical data



Core identification code
acc. to BS 7671:2004



Based on
IEC 60502-1



Specific insulation resistance
> 10 GOhm x cm



Conductor stranding
acc. to IEC 60228 Cl.2



Minimum bending radius
10 x cable diameter



Nominal voltage
U₀/U: 600/1000 V



Test voltage
3500 V



Temperature range
Fixed installation: -20°C to +70°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3803077	2 x 1.5	13.8	28.5	335
3800199	3 x 1.5	14.3	42.8	375
3800200	4 x 1.5	15.1	57.0	425
3800201	5 x 1.5	16.0	70.0	480
3800202	7 x 1.5	17.7	98.0	644
3800203	10 x 1.5	21.0	140.0	835
3800204	12 x 1.5	21.5	168.0	899
3803078	14 x 1.5	23.0	196.0	1113
3803079	16 x 1.5	24.0	224.0	1188
3800205	19 x 1.5	24.8	266.0	1305
3802972	21 x 1.5	26.0	294.0	1398
3800206	27 x 1.5	28.5	378.0	1656
3802973	31 x 1.5	30.5	434.0	1836
3800207	37 x 1.5	31.5	518.0	2024
3800208	48 x 1.5	36.8	672.0	2767
3800209	3 x 2.5	15.2	68.4	439
3800210	4 x 2.5	16.2	91.2	503
3800211	5 x 2.5	17.9	114.0	670
3800212	7 x 2.5	19.0	158.2	776
3800213	10 x 2.5	23.3	226.0	1145
3800214	12 x 2.5	24.0	271.2	1240
3800215	19 x 2.5	27.0	442.0	1630
3802974	21 x 2.5	28.1	488.0	1750
3800216	27 x 2.5	31.3	628.0	2115
3800217	37 x 2.5	36.0	860.0	2891
3800218	48 x 2.5	40.0	1,116.0	3555
3800219	3 x 4	18.0	110.4	666
3800220	4 x 4	19.2	147.2	770
3800221	5 x 4	20.4	184.0	874
3800222	7 x 4	21.8	257.6	1039
3800223	10 x 4	27.1	368.0	1532
3800224	12 x 4	27.8	441.6	1691
3800225	19 x 4	32.0	699.2	2292
3800226	27 x 4	39.0	993.6	3330
3800227	37 x 4	43.1	1,361.6	4147
3800228	48 x 4	50.2	1,766.4	5584
3802971	2 x 6	18.4	110.4	672
3800229	3 x 6	19.2	165.6	786
3800230	4 x 6	20.6	220.8	916
3800231	5 x 6	22.0	276.0	1058
3800232	3 x 10	21.2	277.8	1009
3800233	4 x 10	23.5	370.4	1333
3800234	5 x 10	25.2	370.4	1536
3803075	4 x 16	26.1	588.8	1736
3803076	4 x 25	30.5	926.0	2379

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.

ÖLFLEX® POWER LV (N)2XY

Low voltage power cables



Info

- Low voltage power cable 0.6/1 kV
- Unarmoured, XLPE/PVC

LAPP KABEL STUTTGART ÖLFLEX® POWER LV (N)2XY

LAPP KABEL STUTTGART ÖLFLEX® POWER LV (N)2XY

Application range

- For main power distribution and lighting circuits in residential, industrial and commercial areas
- Power and control circuit
- Telecom power supply

Product features

- Cable construction in acc. to IEC 60502-1
- Flame-retardant acc. to IEC 60332-1-2
- UV-resistant outer sheath for outdoor application

Approvals (Norm references)



Design

- Stranded plain annealed copper wires in circular or sectorial shape conductor
- XLPE core insulation
- PVC outer sheath, black

Technical data

- Core identification code**
acc. to BS 7671:2004
- Based on**
IEC 60502-1
- Specific insulation resistance**
> 1000 GOhm x cm
- Conductor stranding**
acc. to IEC 60228 Cl.2
- Minimum bending radius**
Fixed installation: 8 x cable diameter
- Nominal voltage**
U₀/U: 600/1000 V
- Test voltage**
3500 V
- Temperature range**
Fixed installation: -40°C to +90°C

Article number	Number of cores and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
Single core				
3800250	1 x 16	9.4	147.2	205
3800254	1 x 25	11.1	230.0	309
3800262	1 x 35	12.4	322.0	412
3800270	1 x 50	14.0	460.0	540
3800275	1 x 70	16.0	644.0	760
3800280	1 x 95	18.0	874.0	1020
3800285	1 x 120	20.0	1,104.0	1270
3800290	1 x 150	22.0	1,380.0	1560
3800295	1 x 185	24.7	1,702.0	1930
3800300	1 x 240	27.7	2,208.0	2510
3800305	1 x 300	30.6	2,760.0	3120
3800310	1 x 400	34.2	3,680.0	3970
3800311	1 x 500	38.0	4,600.0	4980
3800312	1 x 630	42.9	5,796.0	6400
3800313	1 x 800	47.3	7,360.0	8190
3800314	1 x 1000	52.6	9,200.0	10265
2 core				
3800235	2 x 1.5	10.0	28.2	130
3800238	2 x 2.5	10.8	46.0	165
3800241	2 x 4	11.9	73.6	210
3800244	2 x 6	13.1	110.4	270
3800247	2 x 10	14.9	184.0	390
3800251	2 x 16	17.2	294.4	450
3800255	2 x 25	20.5	460.0	820
3800264	2 x 35 (S)	18.8	651.0	880
3800271	2 x 50 (S)	21.0	930.0	1140
3800276	2 x 70 (S)	24.0	1,302.0	1560
3800281	2 x 95 (S)	26.9	1,767.0	2130
3800286	2 x 120 (S)	29.9	2,232.0	2640
3800291	2 x 150 (S)	33.4	2,790.0	3270
3800296	2 x 185 (S)	37.1	3,441.0	4040
3800301	2 x 240 (S)	45.0	4,464.0	5250
3800306	2 x 300 (S)	50.0	5,580.0	6560
3 core				
3800236	3 x 1.5	10.5	42.3	150
3800239	3 x 2.5	11.4	69.0	195
3800242	3 x 4	12.6	110.4	255
3800245	3 x 6	13.8	165.6	330
3800248	3 x 10	15.8	276.0	490
3800252	3 x 16	18.3	441.6	700
3800257	3 x 25	21.8	690.0	1000
3800266	3 x 35 (S)	22.0	976.5	1180
3800272	3 x 50 (S)	24.0	1,395.0	1600
3800277	3 x 70 (S)	28.0	1,953.0	2240
3800282	3 x 95 (S)	31.0	2,650.5	3050
3800287	3 x 120 (S)	35.5	3,348.0	3800
3800292	3 x 150 (S)	38.5	4,185.0	4640
3800297	3 x 185 (S)	43.0	5,161.5	5870
3800302	3 x 240 (S)	48.0	6,696.0	7670
3800307	3 x 300 (S)	54.0	8,370.0	9460
4 core				
3800237	4 x 1.5	11.5	56.4	175
3800240	4 x 2.5	12.5	92.0	225
3800243	4 x 4	13.8	147.2	305

Article number	Number of cores and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3800246	4 x 6	15.2	220.8	405
3800249	4 x 10	17.5	368.0	600
3800253	4 x 16	20.0	588.8	870
3800260	4 x 25	24.0	920.0	1325
3800267	3 x 35 + 16	24.8	1,113.2	1450
3800269	4 x 35 (S)	26.5	1,288.0	1600
3800273	3 x 50 + 25	28.5	1,610.0	2050
3800274	4 x 50 (S)	30.1	1,840.0	2200
3800278	3 x 70 + 35	33.2	2,254.0	2750
3800279	4 x 70 (S)	35.4	2,576.0	3050
3800283	3 x 95 + 50	37.8	3,082.0	3750
3800284	4 x 95 (S)	40.2	3,496.0	4070
3800288	3 x 120 + 70	42.6	3,956.0	4750
3800289	4 x 120 (S)	44.9	4,416.0	5195
3800293	3 x 150 + 70	46.3	4,784.0	5700
3800294	4 x 150 (S)	49.8	5,520.0	6350
3800298	3 x 185 + 95	52.1	5,980.0	7705
3800299	4 x 185 (S)	55.8	6,808.0	7890
3800303	3 x 240 + 120	58.6	7,728.0	9250
3800304	4 x 240 (S)	62.9	8,832.0	10400
3800308	3 x 300 + 150	65.0	9,660.0	11500
3800309	4 x 300 (S)	69.7	11,040.0	12810
5 core				
3804030	5 x 1.5	11.7	70.5	192
3803080	5 x 2.5	12.9	115.0	255
3803081	5 x 4	14.4	184.0	260
3803082	5 x 6	16.0	276.0	475
3804031	5 x 10	18.4	460.0	758
3804032	5 x 16	21.3	736.0	1135
3804033	5 x 25	26.0	1,150.0	1742
3804034	5 x 35	29.2	1,610.0	2355
6 core and above				
3804035	7 x 1.5	12.7	98.7	250
3803084	7G 1.5	12.7	98.7	250
3804036	12 x 1.5	16.2	169.2	375
3803085	12G 1.5	16.2	169.2	375
3804037	14 x 1.5	16.9	197.4	420
3804038	16 x 1.5	17.7	225.6	468
3804039	19 x 1.5	18.6	267.9	540
3804040	24 x 1.5	21.8	338.4	710
3803086	24G 1.5	21.8	338.4	710
3804041	27 x 1.5	22.1	380.7	737
3804042	37 x 1.5	24.7	521.7	970
3804043	48 x 1.5	28.1	676.8	1230
3804044	7 x 2.5	14.0	161.0	320
3803088	7G 2.5	14.0	161.0	320
3804045	12 x 2.5	18.0	276.0	475
3803089	12G 2.5	18.0	276.0	475
3804046	14 x 2.5	18.7	322.0	598
3804047	16 x 2.5	19.7	368.0	672
3804048	19 x 2.5	20.8	437.0	780
3804049	24 x 2.5	24.2	552.0	972
3804050	27 x 2.5	24.7	621.0	1075
3804051	37 x 2.5	27.6	851.0	1427
3804052	48 x 2.5	31.8	1,104.0	1836

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Photographs are not to scale and do not represent detailed images of the respective products.

ÖLFLEX® POWER LV (N)2XYRY SC

Low voltage power cables



Info

- Low voltage power cable 0.6/1 kV
- Single core, Armoured (AWA)
XLPE/PVC/AWA/PVC

Application range

- For main power distribution and lighting circuits in residential, industrial and commercial areas
- Power and control circuit
- Telecom power supply
- Suitable for direct burial installations as well as in air or ducts

Product features

- Cable construction in acc. to IEC 60502-1
- Flame-retardant acc. to IEC 60332-1-2
- UV-resistant outer sheath for outdoor application

Approvals (Norm references)



Design

- Stranded plain annealed copper wires in circular shape conductor
- XLPE core insulation
- PVC inner sheath, black
- Aluminium wire armoured
- PVC outer sheath, black

Technical data



Based on
IEC 60502-1



Specific insulation resistance
> 1000 GOhm x cm



Conductor stranding
acc. to IEC 60228 Cl.2



Minimum bending radius
10 x cable diameter



Nominal voltage
U₀/U: 600/1000 V



Test voltage
3500 V



Temperature range
Fixed installation: -40°C to +90°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3800315	1 x 25	15.8	225.0	645
3800316	1 x 35	17.5	315.0	888
3800317	1 x 50	19.0	450.0	1107
3800318	1 x 70	21.0	630.0	1418
3800319	1 x 95	23.6	855.0	1913
3800320	1 x 120	25.4	1,080.0	2275
3800321	1 x 150	27.3	1,350.0	2718
3800322	1 x 185	29.8	1,665.0	3245
3800323	1 x 240	32.8	2,160.0	4021
3800324	1 x 300	36.8	2,760.0	5141
3800325	1 x 400	40.4	3,600.0	6474
3800326	1 x 500	44.1	4,500.0	7872
3800327	1 x 630	50.2	5,670.0	10177
3800328	1 x 800	55.3	7,200.0	12494
3800329	1 x 1000	61.0	9,000.0	15268

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ÖLFLEX® POWER LV (N)2XYRY

Low voltage power cables



Info

- Low voltage power cable 0.6/1 kV
- Multicore, Armoured (SWA)
XLPE/PVC/SWA/PVC



Application range

- For main power distribution and lighting circuits in residential, industrial and commercial areas
- Power and control circuit
- Telecom power supply
- Suitable for direct burial installations as well as in air or ducts

Product features

- Cable construction in acc. to IEC 60502-1
- Flame-retardant acc. to IEC 60332-1-2
- UV-resistant outer sheath for outdoor application

Approvals (Norm references)



Design

- Stranded plain annealed copper wires in circular or sectorial shape conductor
- XLPE core insulation
- PVC inner sheath, black
- Galvanized steel wire armoured
- PVC outer sheath, black

Technical data

	Core identification code acc. to BS 7671:2004
	Based on IEC 60502-1
	Specific insulation resistance > 1000 GOhm x cm
	Conductor stranding acc. to IEC 60228 Cl.2
	Minimum bending radius 10 x cable diameter
	Nominal voltage U ₀ /U: 600/1000 V
	Test voltage 3500 V
	Temperature range Fixed installation: -40°C to +90°C

Article number	Number of cores and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
2 core				
3800330	2 x 1.5	13.4	28.2	323
3800333	2 x 2.5	14.3	46.0	374
3800336	2 x 4	15.4	73.6	445
3800339	2 x 6	17.2	110.4	610
3800342	2 x 10	19.1	184.0	775
3800345	2 x 16	21.2	294.4	980
3800348	2 x 25	25.0	460.0	1472
3800356	2 x 35 (S)	27.7	644.0	1815
3800362	2 x 50 (S)	30.8	920.0	2287
3800366	2 x 70 (S)	36.0	1,288.0	3205
3800370	2 x 95 (S)	40.5	1,748.0	4040
3800374	2 x 120 (S)	44.2	2,208.0	4850
3800378	2 x 150 (S)	49.8	2,760.0	6274
3800382	2 x 185 (S)	54.8	3,404.0	7485
3800386	2 x 240 (S)	61.2	4,416.0	9260
3800390	2 x 300 (S)	66.8	5,580.0	11064
3 core				
3800331	3 x 1.5	14.0	42.3	356
3800334	3 x 2.5	14.8	69.0	418
3800337	3 x 4	16.0	110.4	507
3800340	3 x 6	18.0	165.6	710
3800343	3 x 10	20.0	276.0	925
3800346	3 x 16	23.0	441.6	1350
3800350	3 x 25	26.7	690.0	1840
3800358	3 x 35 (S)	29.5	966.0	2290
3800363	3 x 50 (S)	32.7	1,380.0	2958
3800367	3 x 70 (S)	38.7	1,932.0	4205
3800371	3 x 95 (S)	43.0	2,622.0	5306
3800375	3 x 120 (S)	48.2	3,312.0	6830
3800379	3 x 150 (S)	53.0	4,140.0	8262
3800383	3 x 185 (S)	58.3	5,106.0	9904
3800387	3 x 240 (S)	65.2	6,624.0	12341
3800391	3 x 300 (S)	71.2	8,280.0	14900
4 core				
3800332	4 x 1.5	14.6	56.4	398
3800335	4 x 2.5	15.7	92.0	478
3800338	4 x 4	17.7	147.2	679
3800341	4 x 6	19.1	220.8	829
3800344	4 x 10	21.4	368.0	1093
3800347	4 x 16	24.7	588.8	1600
3800353	4 x 25	28.9	920.0	2228
3800359	3 x 35 + 16	30.1	1,113.2	2521
3800361	4 x 35 (S)	31.0	1,288.0	2817

Article number	Number of cores and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3800364	3 x 50 + 25	34.8	1,610.0	3560
3800365	4 x 50 (S)	37.0	1,840.0	3990
3800368	3 x 70 + 35	40.0	2,254.0	4688
3800369	4 x 70 (S)	42.2	2,576.0	5222
3800372	3 x 95 + 50	44.7	3,082.0	5984
3800373	4 x 95 (S)	48.2	3,496.0	7064
3800376	3 x 120 + 70	51.0	3,956.0	7869
3800377	4 x 120 (S)	53.1	4,416.0	8609
3800380	3 x 150 + 70	54.6	4,784.0	9172
3800381	4 x 150 (S)	58.2	5,520.0	10352
3800384	3 x 185 + 95	60.7	5,980.0	11204
3800385	4 x 185 (S)	64.6	6,808.0	12530
3800388	3 x 240 + 120	67.3	7,728.0	13891
3800389	4 x 240 (S)	71.7	8,832.0	15668
3800392	3 x 300 + 150	75.0	9,660.0	17661
3800393	4 x 300 (S)	80.3	11,040.0	19982
5 core				
3804054	5 x 1.5	15.5	70.5	445
3804055	5 x 2.5	17.4	115.0	627
3804056	5 x 4	18.8	184.0	774
3804057	5 x 6	20.4	276.0	950
3804058	5 x 10	23.6	460.0	1406
3804059	5 x 16	26.5	736.0	1867
3804060	5 x 25	31.4	1,150.0	2636
3804061	5 x 35	35.7	1,610.0	3626
6 core and above				
3804062	7 x 1.5	17.1	98.7	607
3804063	12 x 1.5	20.6	169.2	837
3804064	14 x 1.5	21.4	197.4	909
3804065	16 x 1.5	23.0	225.6	1118
3804066	19 x 1.5	23.9	267.9	1210
3804067	24 x 1.5	26.8	338.4	1451
3804068	27 x 1.5	27.3	380.7	1536
3804069	37 x 1.5	30.0	521.7	1876
3804070	48 x 1.5	34.5	676.8	2497
3804071	7 x 2.5	18.4	161.0	7346
3804072	12 x 2.5	23.1	276.0	1176
3804073	14 x 2.5	24.0	322.0	1286
3804074	16 x 2.5	25.0	368.0	1380
3804075	19 x 2.5	26.0	437.0	1525
3804076	24 x 2.5	29.6	552.0	1860
3804077	27 x 2.5	30.1	621.0	1982
3804078	37 x 2.5	34.0	851.0	2665
3802990	48 x 2.5	38.8	1,104.0	3325

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AS ORANGE / BLACK CIRCULAR

PVC insulated/sheathed cables

LAPP KABEL AS BLACK CIRCULAR V-90/5V-90

LAPP KABEL AS ORANGE CIRCULAR V-90/5V-90

Benefits

- Wide range of application opportunities

Application range

- For fixed installation in power and lighting circuits in commercial buildings
- Plant engineering and construction, industrial machinery, power station
- Suitable for outdoor used under direct sunlight

Product features

- Flame retardant acc. to AS/NZS 1660.5.6 resp. to IEC 60332-1-2

- UV-resistant outer sheath for outdoor application

Approvals (Norm references)



Design

- Stranded plain annealed copper wire
- PVC (V-90) core insulation
- PVC (5V-90) outer sheath, orange and black



Info

- Multicore power cable
- Complies to AS/NZ Standard

Technical data



Core identification code
acc. to AS/NZS 5000.1



Based on
AS/NZS 5000.1, AS/NZS 5000.2, AS/NZS 1660.5.6



Specific insulation resistance
> 20 GOhm x cm



Conductor stranding
Stranded wire acc. to AS/NZS 1125 Cl. 2



Minimum bending radius
Fixed installation: 4 x cable diameter



Nominal voltage
Reduced Earth:
450/750 V (≤ 6 mm²)
600/1000 V (≥ 10 mm²)
Full Earth: 600/1000 V



Test voltage
3500 V



Temperature range
-20°C to +90°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
450/750 V					
3801816	2x1.5+E	8.4	orange	43.2	105
3803840	2x1.5+E	8.4	black	43.2	105
3801817	2x2.5+E	10.1	orange	72.0	153
3803841	2x2.5+E	10.1	black	72.0	153
3801818	2x4+2.5E	11.1	orange	100.8	199
3803842	2x4+2.5E	11.1	black	100.8	199
3801819	2x6+2.5E	12.0	orange	139.2	258
3803843	2x6+2.5E	12.0	black	139.2	258
3801831	3x1.5+E	9.3	orange	57.6	130
3803852	3x1.5+E	9.3	black	57.6	130
3801832	3x2.5+E	10.9	orange	96.0	192
3803853	3x2.5+E	10.9	black	96.0	192
3801833	3x4+2.5E	12.3	orange	139.2	266
3803854	3x4+2.5E	12.3	black	139.2	266
3801834	3x6+2.5E	13.6	orange	196.8	345
3803855	3x6+2.5E	13.6	black	196.8	345
3801851	4x1.5+E	10.1	orange	72.0	155
3803864	4x1.5+E	10.1	black	72.0	155
3801852	4x2.5+E	11.9	orange	120.0	238
3803865	4x2.5+E	11.9	black	120.0	238
3801853	4x4+2.5E	13.7	orange	177.6	328
3803866	4x4+2.5E	13.7	black	177.6	328
3801854	4x6+2.5E	15.1	orange	254.4	440
3803867	4x6+2.5E	15.1	black	254.4	440
Reduced Earth, 600/1000 V					
3801962	2x4+2.5E	12.9	orange	100.8	243
3803904	2x4+2.5E	12.9	black	100.8	243
3801963	2x6+2.5E	13.7	orange	139.2	301
3803905	2x6+2.5E	13.7	black	139.2	301
3801820	2x10+4E	15.4	orange	230.4	431
3803844	2x10+4E	15.4	black	230.4	431
3801821	2x16+6E	17.4	orange	364.8	616
3803845	2x16+6E	17.4	black	364.8	616
3801822	2x25+6E	20.3	orange	537.6	868
3803846	2x25+6E	20.3	black	537.6	868
3801823	2x35+10E	22.6	orange	768.0	1183
3803847	2x35+10E	22.6	black	768.0	1183
3801824	2x50+16E	25.7	orange	1,113.6	1647
3803848	2x50+16E	25.7	black	1,113.6	1647
3801825	2x70+25E	30.0	orange	1,584.0	2298
3803849	2x70+25E	30.0	black	1,584.0	2298
3801826	2x95+25E	33.5	orange	2,064.0	2970
3803850	2x95+25E	33.5	black	2,064.0	2970
3801827	2x120+35E	36.6	orange	2,640.0	3722
3803851	2x120+35E	36.6	black	2,640.0	3722
3801966	3x4+2.5E	14.2	orange	139.2	313
3803908	3x4+2.5E	14.2	black	139.2	313
3801967	3x6+2.5E	15.3	orange	196.8	397
3803909	3x6+2.5E	15.3	black	196.8	397
3801835	3x10+4E	17.3	orange	326.4	578
3803856	3x10+4E	17.3	black	326.4	578
3801836	3x16+6E	19.8	orange	518.4	838
3803857	3x16+6E	19.8	black	518.4	838
3801837	3x25+6E	22.7	orange	777.6	1211
3803858	3x25+6E	22.7	black	777.6	1211
3801838	3x35+10E	25.6	orange	1,104.0	1648
3803859	3x35+10E	25.6	black	1,104.0	1648
3801839	3x50+16E	29.5	orange	1,593.6	2314
3803860	3x50+16E	29.5	black	1,593.6	2314
3801840	3x70+25E	34.4	orange	2,256.0	3229
3803861	3x70+25E	34.4	black	2,256.0	3229
3801841	3x95+25E	38.8	orange	2,976.0	4229
3803862	3x95+25E	38.8	black	2,976.0	4229
3801842	3x120+35E	42.4	orange	3,792.0	5289
3803863	3x120+35E	42.4	black	3,792.0	5289
3801970	4x4+2.5E	15.5	orange	177.6	382
3803912	4x4+2.5E	15.5	black	177.6	382
3801971	4x6+2.5E	16.8	orange	254.4	493
3803913	4x6+2.5E	16.8	black	254.4	493
3801855	4x10+4E	19.1	orange	422.4	726
3803868	4x10+4E	19.1	black	422.4	726
3801856	4x16+6E	21.7	orange	672.0	1061
3803869	4x16+6E	21.7	black	672.0	1061
3801857	4x25+6E	26.1	orange	1,017.6	1581
3803870	4x25+6E	26.1	black	1,017.6	1581

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
3801858	4x35+10E	28.7	orange	1,440.0	2114
3803871	4x35+10E	28.7	black	1,440.0	2114
3801859	4x50+16E	33.3	orange	2,073.6	2983
3803872	4x50+16E	33.3	black	2,073.6	2983
3801860	4x70+25E	38.7	orange	2,928.0	4150
3803873	4x70+25E	38.7	black	2,928.0	4150
3801861	4x95+25E	43.9	orange	3,888.0	5477
3803874	4x95+25E	43.9	black	3,888.0	5477
3801862	4x120+35E	48.2	orange	4,944.0	6865
3803875	4x120+35E	48.2	black	4,944.0	6865
Full Earth, 600/1000 V					
3801960	2x1.5+E	10.5	orange	43.2	142
3803902	2x1.5+E	10.5	black	43.2	142
3801964	3x1.5+E	11.3	orange	57.6	172
3803906	3x1.5+E	11.3	black	57.6	172
3801968	4x1.5+E	12.2	orange	72.0	203
3803910	4x1.5+E	12.2	black	72.0	203
3801866	5x1.5+E	13.2	orange	86.4	234
3803876	5x1.5+E	13.2	black	86.4	234
3801867	6x1.5+E	13.2	orange	100.8	258
3803877	6x1.5+E	13.2	black	100.8	258
3801868	8x1.5+E	15.7	orange	129.6	326
3803878	8x1.5+E	15.7	black	129.6	326
3801869	10x1.5+E	16.4	orange	158.4	379
3803879	10x1.5+E	16.4	black	158.4	379
3801870	12x1.5+E	17.7	orange	187.2	436
3803880	12x1.5+E	17.7	black	187.2	436
3801871	15x1.5+E	18.6	orange	230.4	515
3803881	15x1.5+E	18.6	black	230.4	515
3801872	16x1.5+E	19.6	orange	244.8	546
3803882	16x1.5+E	19.6	black	244.8	546
3801873	20x1.5+E	20.6	orange	302.4	649
3803883	20x1.5+E	20.6	black	302.4	649
3801874	25x1.5+E	22.7	orange	374.4	785
3803884	25x1.5+E	22.7	black	374.4	785
3801875	30x1.5+E	25.0	orange	446.4	921
3803885	30x1.5+E	25.0	black	446.4	921
3801876	36x1.5+E	25.9	orange	532.8	1070
3803886	36x1.5+E	25.9	black	532.8	1070
3801877	40x1.5+E	28.1	orange	590.4	1183
3803887	40x1.5+E	28.1	black	590.4	1183
3801878	50x1.5+E	30.8	orange	734.4	1466
3803888	50x1.5+E	30.8	black	734.4	1466
3801961	2x2.5+E	11.4	orange	72.0	187
3803903	2x2.5+E	11.4	black	72.0	187
3801965	3x2.5+E	12.4	orange	96.0	231
3803907	3x2.5+E	12.4	black	96.0	231
3801969	4x2.5+E	13.5	orange	120.0	276
3803911	4x2.5+E	13.5	black	120.0	276
3801881	5x2.5+E	14.5	orange	144.0	321
3803889	5x2.5+E	14.5	black	144.0	321
3801882	6x2.5+E	14.5	orange	168.0	357
3803890	6x2.5+E	14.5	black	168.0	357
3801883	8x2.5+E	17.5	orange	216.0	453
3803891	8x2.5+E	17.5	black	216.0	453
3801884	10x2.5+E	18.2	orange	264.0	531
3803892	10x2.5+E	18.2	black	264.0	531
3801885	12x2.5+E	19.7	orange	312.0	615
3803893	12x2.5+E	19.7	black	312.0	615
3801886	15x2.5+E	20.7	orange	384.0	732
3803894	15x2.5+E	20.7	black	384.0	732
3801887	16x2.5+E	21.8	orange	408.0	777
3803895	16x2.5+E	21.8	black	408.0	777
3801888	20x2.5+E	23.0	orange	504.0	931
3803896	20x2.5+E	23.0	black	504.0	931
3801889	25x2.5+E	25.5	orange	624.0	1132
3803897	25x2.5+E	25.5	black	624.0	1132
3801890	30x2.5+E	28.2	orange	744.0	1346
3803898	30x2.5+E	28.2	black	744.0	1346
3801891	36x2.5+E	29.3	orange	888.0	1572
3803899	36x2.5+E	29.3	black	888.0	1572
3801892	40x2.5+E	31.9	orange	984.0	1752
3803900	40x2.5+E	31.9	black	984.0	1752
3801893	50x2.5+E	34.9	orange	1,224.0	2154
3803901	50x2.5+E	34.9	black	1,224.0	2154

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For current information see: www.lappcableasia.lappgroup.com

ÖLFLEX® POWER TPR 90 SDI

Flexible power cables



Info

- Highly flexible SDI
- Oil- and UV-resistant

LAPP KABEL STU↑GART ÖLFLEX® POWER TPR 90 SDI

LAPP KABEL STU↑GART ÖLFLEX® POWER TPR 90 SDI

Benefits

- Ideal alternative for H07RN-F with improve characteristics
- Highly flexible single core dual insulation

Application range

- Connection of electrical equipment, drills, boilers, etc.
- For transportable motors or machines
- Suitable for power application

Product features

- Flame retardant acc. to AS/NZS 1660.5.6 resp. to IEC 60332-1-2
- Oil resistant acc. to IEC 60811-2-1
- UV-resistant outer sheath for outdoor application
- Also available in gnye color but in single insulation only

Approvals (Norm references)



Design

- Extra fine strands of bare copper wires
- TPR core insulation
- TPR outer sheath, black or orange

Technical data



Core identification code
white



Based on
AS/NZS 5000.1



Specific insulation resistance
> 20 GOhm x cm



Conductor stranding
Extra fine wire acc. to AS/NZS 1125 Cl.6 / IEC 60228 Cl.6



Minimum bending radius
occasional flexing: 15 x cable diameter
fixed installation: 5 x cable diameter



Nominal voltage
U₀/U: 600/1000 V



Test voltage
3500 V



Temperature range
-30 °C to +90 °C

Article number	Conductor cross-section	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
3801449	2.5	7.2	orange	24.0	75
3801797	2.5	7.2	black	24.0	75
3801450	4.0	7.9	orange	38.4	96
3801780	4.0	7.9	black	38.4	96
3801451	6.0	8.5	orange	57.6	125
3801781	6.0	8.5	black	58.0	125
3801452	10.0	9.4	orange	96.0	181
3801782	10.0	9.4	black	96.0	181
3801453	16.0	10.6	orange	153.6	260
3801783	16.0	10.6	black	154.0	260
3801454	25.0	12.5	orange	240.0	385
3801784	25.0	12.5	black	240.0	385
3801455	35.0	13.8	orange	336.0	513
3801785	35.0	13.8	black	336.0	513
3801456	50.0	15.4	orange	480.0	714
3801786	50.0	15.4	black	480.0	714
3801457	70.0	17.2	orange	672.0	964
3801787	70.0	17.2	black	672.0	964
3801458	95.0	19.5	orange	912.0	1297
3801788	95.0	19.5	black	912.0	1297
3801459	120.0	21.8	orange	1,152.0	1614
3801789	120.0	21.8	black	1,152.0	1614
3801460	150.0	23.9	orange	1,440.0	2000
3801790	150.0	23.9	black	1,440.0	2000
3801461	185.0	26.3	orange	1,776.0	2457
3801791	185.0	26.3	black	1,776.0	2457
3801462	240.0	29.3	orange	2,301.0	3175
3801792	240.0	29.3	black	2,301.0	3175
3801463	300.0	33.0	orange	2,880.0	3947
3801793	300.0	33.0	black	2,880.0	3947
3801464	400.0	38.0	orange	3,840.0	5200
3801794	400.0	38.0	black	3,840.0	5200
3801465	500.0	42.1	orange	4,800.0	6494
3801795	500.0	42.1	black	4,800.0	6494
3801466	630.0	47.2	orange	6,048.0	8268
3801796	630.0	47.2	black	6,048.0	8268

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
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ÖLFLEX® POWER TPR 90 MC

Flexible power cables



Info

- Highly flexible
- Oil- and UV-resistant

Benefits

- Ideal alternative for H07RN-F with improved characteristics
- Highly flexible TPR insulated/sheathed multi-core cable

Application range

- Connection of electrical equipment, drills, boilers, etc.
- For transportable motors or machines
- Suitable for power application

Product features

- Flame retardant acc. to AS/NZS 1660.5.6 resp. to IEC 60332-1-2
- Oil resistant acc. to IEC 60811-2-1
- UV-resistant outer sheath for outdoor application

Approvals (Norm references)



Design

- Extra fine strands of bare copper wires
- TPR core insulation
- TPR outer sheath, black

Technical data



Core identification code
acc. to VDE 0293-308



Based on
AS/NZS 5000.1



Specific insulation resistance
> 20 GOhm x cm



Conductor stranding
Fine wire acc. to AS/NZS 1125 Cl.5 / IEC 60228 Cl. 5



Minimum bending radius
occasional flexing: 15 x cable diameter
fixed installation: 5 x cable diameter



Nominal voltage
U₀/U: 600/1000 V



Test voltage
3500 V



Temperature range
-30°C to +90°C

Article number	Number of pairs/conductor cross section (mm²)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
2 Core				
3802900	2 x 1.5	11.2	28.8	121
3802901	2 x 2.5	12.2	48.0	159
3802902	2 x 4	13.4	76.8	218
3802903	2 x 6	14.7	115.2	302
3802904	2 x 10	16.9	192.0	573
3802905	2 x 16	19.4	307.2	766
3802906	2 x 25	23.1	480.0	1142
3802907	2 x 35	25.8	672.0	1483
Full Earth				
3801900	2x1+E	11.1	29.0	121
3801901	2x1.5+E	11.8	43.0	159
3801902	2x2.5+E	12.9	72.0	218
3802910	2x4+E	14.2	115.2	281
3802911	2x6+E	15.6	172.8	392
3802912	2x10+E	17.9	288.0	725
3802913	2x16+E	20.6	460.8	991
3802914	2x25+E	24.6	720.0	1479
3802915	2x35+E	27.5	1,008.0	1927
3802916	2x50+E	32.5	1,440.0	2649
3802917	2x70+E	36.7	2,016.0	3467
3802918	2x95+E	42.3	2,736.0	4315
3802919	2x120+E	46.6	3,456.0	5376
3801911	3x1+E	12.0	38.0	180
3801912	3x1.5+E	12.8	58.0	219
3801913	3x2.5+E	14.0	96.0	287
3802924	3x4+E	15.5	153.6	354
3802925	3x6+E	17.1	230.4	495
3802926	3x10+E	19.7	384.0	921
3802927	3x16+E	22.6	614.4	1249
3802928	3x25+E	27.1	960.0	1879
3802929	3x35+E	30.6	1,344.0	2449
3802930	3x50+E	36.1	1,920.0	3380
3802931	3x70+E	40.9	2,688.0	4427
3802932	3x95+E	47.3	3,648.0	5550
3801926	4x1.5+E	13.8	72.0	261
3801927	4x 2.5+E	15.2	120.0	349
3802938	4x4+E	16.9	192.0	438

Article number	Number of pairs/conductor cross section (mm²)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3802939	4x6+E	18.6	288.0	610
3802940	4x10+E	21.6	480.0	1120
3802941	4x 16+E	24.9	768.0	1533
3802942	4x25+E	30.1	1,200.0	2300
3802943	4x35+E	34.2	1,680.0	3016
3802944	4x50+E	40.2	2,400.0	4154
3802945	4x70+E	45.5	3,360.0	5461
3801940	6x1.5+E	14.9	100.8	330
3801942	11x1.5+E	19.3	172.8	567
3801947	17x1.5+E	22.5	259.2	811
3801948	26x1.5+E	26.9	388.8	1177
3801949	35x1.5+E	30.3	518.4	1525
3801941	6x2.5+E	16.5	168.0	445
3801943	11x2.5+E	21.5	288.0	760
Reduced Earth				
3801903	2x4+2.5E	13.9	101.0	287
3801904	2x6+2.5E	14.7	139.0	370
3801905	2x10+4E	16.7	230.0	719
3801906	2x16+6E	18.9	365.0	945
3801907	2x25+6E	21.7	538.0	1383
3801908	2x35+10E	24.4	768.0	1780
3801914	3x4+2.5E	15.1	139.0	365
3801915	3x6+2.5E	16.3	197.0	481
3801916	3x10+4E	18.7	326.0	847
3801917	3x16+6E	21.3	518.0	1148
3801918	3x25+6E	24.7	778.0	1659
3801919	3x35+10E	26.9	1,104.0	2190
3801920	3x50+16E	32.7	1,594.0	3012
3801921	3x70+25E	37.6	2,256.0	3975
3801928	4x4+2.5E	16.6	178.0	453
3801929	4x6+2.5E	17.9	254.0	598
3801930	4x10+4E	20.6	422.0	1045
3801931	4x16+6E	23.6	672.0	1463
3801932	4x25+ 6E	27.7	1,018.0	2083
3801933	4x35+10E	31.6	1,440.0	2738
3801934	4x50+16E	37.2	2,074.0	3796
3801935	4x70+25E	42.4	2,990.0	5471

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LAPP KABEL H05RR-F



Info

- VDE tested and certified

Application range

- Hand-held and power supply devices
- For dry and damp interiors, as well as for limited outdoor use
- Light and sound applications
- Light duty rubber-sheath cable
- For light workshop devices with light stress

Product features

- Flame retardant acc. to IEC 60332-1-2

Approvals (Norm references)



Design

- Fine strands of bare copper wires
- Rubber type EI4 core insulation
- Rubber type EM3 outer sheath, black

Technical data

	Core identification code acc. to VDE 0293-308
	Approvals VDE 0282 Part 4
	Specific insulation resistance 1 GOhm x cm
	Conductor stranding Fine wire acc. to IEC 60228 / VDE 0295 Cl.5
	Minimum bending radius 6 x cable diameter
	Nominal voltage U ₀ /U: 300/500 V
	Test voltage 2000 V
	Protective conductor G = with protective conductor GN/YE X = without protective conductor
	Temperature range -25 °C to +60 °C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3808120	2 X 0.75	5.7 - 7.4	14.4	61
3808121	2 X 1.0	6.1 - 8.0	19.0	73
3808122	2 X 1.5	7.6 - 9.8	29.0	115
3808123	2 X 2.5	9.0 - 11.6	48.0	160
3808124	2 X 4	10.6 - 13.7	77.0	192
3808125	2 X 6	12.1 - 15.4	115.2	250
3808130	3 G 0.75	6.2 - 8.1	21.6	75
3808131	3 G 1.0	6.5 - 8.5	29.0	86
3808132	3 G 1.5	8.0 - 10.4	43.0	135
3808133	3 G 2.5	9.6 - 12.4	72.0	190
3808134	3 G 4	11.3 - 14.5	115.0	255
3808135	3 G 6	12.8 - 16.3	173.0	350
3808140	4 G 0.75	6.8 - 8.8	30.0	91
3808141	4 G 1.0	7.1 - 9.3	38.0	105
3808142	4 G 1.5	9.0 - 11.6	58.0	165
3808143	4 G 2.5	10.7 - 13.8	96.0	235
3808144	4 G 4	12.7 - 16.2	154.0	327
3808145	4 G 6	14.2 - 18.1	230.0	449
3808150	5 G 0.75	7.6 - 9.9	45.2	110
3808151	5 G 1.0	8.0 - 10.3	48.0	128
3808152	5 G 1.5	9.8 - 12.7	72.0	190
3808153	5 G 2.5	11.9 - 15.3	120.0	285
3808154	5 G 4	14.6 - 18.6	192.0	401
3808155	5 G 6	16.8 - 20.4	288.0	550

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LAPP KABEL H05RN-F



Info

- VDE tested and certified

■ Application range

- Hand-held and power supply devices
- For dry and damp interiors, as well as for limited outdoor use
- Medium duty rubber-sheathed cable
- For lightweight workshop tools subject to medium loads

■ Product features

- Flame retardant acc. to IEC 60332-1-2

■ Approvals (Norm references)



■ Design

- Fine strands of bare copper wires
- Rubber type EI4 core insulation
- Rubber type EM2 outer sheath, black

■ Technical data



Core identification code
acc. to VDE 0293-308



Approvals
VDE 0282 Part 4



Specific insulation resistance
1 GOhm x cm



Conductor stranding
Fine wire acc. to IEC 60228 / VDE 0295 Cl.5



Minimum bending radius
6 x cable diameter



Nominal voltage
U₀/U: 300/500 V



Test voltage
2000 V



Protective conductor
G = with protective conductor GN/YE
X = without protective conductor



Temperature range
-25°C to +60°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3808220	2 X 0.75	5.7 - 7.4	14.4	78
3808221	2 X 1.0	6.1 - 8.0	19.0	94
3808230	3 G 0.75	6.2 - 8.1	21.6	94
3808231	3 G 1.0	6.5 - 8.5	29.0	114
3808232	3 G 1.5	8.6 - 11.0	43.0	157
3808240	4 G 0.75	6.8 - 8.8	30.0	122
3808252	5 G 1.5	10.5 - 13.5	72.0	228

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.



Info

● VDE tested and certified

■ Technical data



Core identification code
acc. to VDE 0293-308



Approvals
VDE 0282 Part 4



Specific insulation resistance
1 GOhm x cm



Conductor stranding
Fine wire acc. to IEC 60228 / VDE 0295 Cl.5



Minimum bending radius
6 x cable diameter



Nominal voltage
U₀/U: 450/750 V



Test voltage
2500 V



Protective conductor
G = with protective conductor GN/YE
X = without protective conductor



Temperature range
-25°C to +60°C



■ Application range

- Hand-held and power supply devices
- For dry and damp interiors, as well as for limited outdoor use
- Light & sound technology
- Heavy-duty rubber-sheath cable
- High stresses

■ Product features

- Flame retardant acc. to IEC 60332-1-2

■ Approvals (Norm references)



* VDE approved cables up to 6 mm² only

■ Design

- Fine strands of bare copper wires
- Rubber type EI4 core insulation
- Rubber type EM2 outer sheath, black

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3807100	1.5	5.7 - 7.1	14.4	50
3807101	2.5	6.3 - 7.9	24.0	65
3807102	4	7.2 - 9.0	38.0	115
3807103	6	7.9 - 9.8	58.0	142
3807104	10	9.5 - 11.9	96.0	219
3807105	16	10.8 - 13.4	154.0	302
3807106	25	12.7 - 15.8	240.0	436
3807107	35	14.3 - 17.9	336.0	567
3807108	50	16.5 - 20.6	480.0	790
3807109	70	18.6 - 23.3	672.0	1050
3807110	95	20.8 - 26.0	912.0	1350
3807111	120	22.8 - 28.6	1,152.0	1650
3807112	150	25.2 - 31.4	1,440.0	2050
3807113	185	27.6 - 34.4	1,776.0	2450
3807114	240	30.6 - 38.3	2,304.0	3200
3807115	300	33.5 - 41.9	2,880.0	3900
3807120	2 X 1.0	7.7 - 10.0	19.2	95
3807121	2 X 1.5	8.5 - 11.0	29.0	115
3807122	2 X 2.5	10.2 - 13.1	48.0	140
3807123	2 X 4.0	11.8 - 15.1	77.0	302
3807124	2 X 6.0	13.1 - 16.8	115.2	400
3807125	2 X 10.0	17.7 - 22.6	205.0	750
3807126	2 X 16.0	20.2 - 25.7	307.2	990
3807127	2 X 25.0	24.3 - 30.7	504.0	1400
3807140	3 G 1.0	8.3 - 10.7	29.0	115
3807141	3 G 1.5	9.2 - 11.9	43.0	140
3807142	3 G 2.5	10.9 - 14.0	72.0	200
3807143	3 G 4.0	12.7 - 16.2	115.0	360
3807144	3 G 6.0	14.1 - 18.0	173.0	490
3807145	3 G 10.0	19.1 - 24.2	288.0	900
3807146	3 G 16.0	21.8 - 27.6	461.0	1200
3807147	3 G 25.0	26.1 - 33.0	757.0	1700
3807148	3 G 35.0	29.3 - 37.1	1,008.0	2200
3807149	3 G 50.0	34.1 - 42.9	1,440.0	3100
3807150	3 G 70.0	38.4 - 48.3	2,016.0	4130
3807151	3 G 95.0	43.3 - 54.0	2,736.0	5300
3807152	3 G 120.0	47.4 - 60.0	3,456.0	6200
3807160	4 G 1.0	9.2 - 11.9	38.4	140
3807161	4 G 1.5	10.2 - 13.1	58.0	170
3807162	4 G 2.5	12.1 - 15.5	96.0	245
3807163	4 G 4.0	14.0 - 17.9	154.0	460
3807164	4 G 6.0	15.7 - 20.0	230.0	610
3807165	4 G 10.0	20.9 - 26.5	384.0	1100
3807166	4 G 16.0	23.8 - 30.1	614.0	1500
3807167	4 G 25.0	28.9 - 36.6	960.0	2310
3807168	4 G 35.0	32.5 - 41.1	1,344.0	2800
3807169	4 G 50.0	37.7 - 47.5	1,920.0	3910
3807170	4 G 70.0	42.7 - 54.0	2,688.0	5200
3807171	4 G 95.0	48.4 - 61.0	3,648.0	6320
3807172	4 G 120.0	53.0 - 66.0	4,608.0	6830
3807173	4 G 150.0	58.0 - 73.0	5,760.0	8320
3807174	4 G 185.0	64.0 - 80.0	7,104.0	9800
3807175	4 G 240.0	72.0 - 91.0	9,216.0	12000
3807180	5 G 1.0	10.2 - 13.1	48.0	158
3807181	5 G 1.5	11.2 - 14.4	72.0	210
3807182	5 G 2.5	13.3 - 17.0	120.0	305
3807183	5 G 4.0	15.6 - 19.9	192.0	560
3807184	5 G 6.0	17.5 - 22.2	288.0	750
3807185	5 G 10.0	22.9 - 29.1	480.0	1300
3807186	5 G 16.0	26.4 - 33.3	768.0	1800
3807187	5 G 25.0	32.0 - 40.4	1,200.0	2600
3807190	7 G 1.5	14.0 - 17.5	101.0	335
3807191	7 G 2.5	16.5 - 20.0	168.0	475
3807192	12 G 1.5	17.6 - 22.4	173.0	495
3807193	12 G 2.5	20.6 - 26.2	288.0	710
3807194	18 G 1.5	20.7 - 26.3	259.2	700
3807195	18 G 2.5	24.4 - 30.9	432.0	1100
3807196	24 G 1.5	24.3 - 30.7	346.0	882
3807197	24 G 2.5	28.8 - 36.4	576.0	1650
3807198	36 G 1.5	27.8 - 35.2	504.0	1055
3807199	36 G 2.5	33.2 - 41.8	823.0	1940

Photographs are not to scale and do not represent detailed images of the respective products.

For current information see: www.lappcableasia.lappgroup.com

New

FR-6387 OS

Fire Resistant cables with Overall Screen

LAPP KABEL FR-6387 OS 1x2x1.5 300/500V BS6387 CWZ TUV SUD PSB LISTED SS299-1 LIC 00273

LAPP KABEL FR-6387 OS 1x2x1.5 300/500V BS6387 CWZ TUV SUD PSB LISTED SS299-1 LIC 00273

Application range

- Specially designed to be use for wiring applications in critical life safety system in public and industrial buildings such as airports, hotels, hospitals, subways, train stations, etc.
- In building management systems, emergency lightings, standby power supplies, lifts and elevators
- Plant engineering and construction, industrial machinery, power station

Product features

- Flame retardant acc. to IEC 60332-1-2 and to IEC 60332-3-22
- Halogen free acc. to IEC 60754-1
- Acid and corrosive gases acc. to IEC 60754-2
- Smoke density test acc. to IEC 61034

Approvals (Norm references)



- Fire test certified and approved to BS 6387 Cat. CWZ
- Approved to SS 299 PLS Class 1A

Design

- Stranded plain annealed copper wire
- Mica based fire resistance tape
- XLPE insulation
- Mylar tape wrapping
- Aluminium/mylar tape screen in contact with drain wire
- LSHF outer sheath
- Colour: orange



Info

- Fire test certified and approved to BS 6387 Cat. CWZ
- Approved to SS 299 PLS Class 1A
- Instrumentation cable, 300/500 V

Technical data



Core identification code

Pair: BK/RD or BU/BN

Multipair: BK/WH with numbering

Multicore: 3C and above WH with numbering



Approvals

BS 6387 Cat. CWZ, SS 299-1 PLS Class 1A



Conductor stranding

acc. to IEC 60228 Cl. 2



Minimum bending radius

10 x cable diameter



Nominal voltage

U₀/U: 300/500 V

Test voltage

2000 V, Core-Core



Temperature range

-30°C to +90°C

Article number	Number of pairs/conductor cross section (mm ²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
Pair / Multipair					
3805860	1 x 2 x 1	8.0	BK/RD	24.0	75
3805861	1 x 2 x 1	8.0	BU/BN	24.0	75
3805862	2 x 2 x 1	11.4	WH/BK	43.2	132
3805863	3 x 2 x 1	13.0	WH/BK	62.4	172
3805864	4 x 2 x 1	14.8	WH/BK	81.6	218
3805865	6 x 2 x 1	17.8	WH/BK	120.0	310
3805866	8 x 2 x 1	20.3	WH/BK	158.4	406
3805867	10 x 2 x 1	22.5	WH/BK	196.8	492
3805868	12 x 2 x 1	24.5	WH/BK	235.2	574
3805869	15 x 2 x 1	27.2	WH/BK	292.8	711
3805870	20 x 2 x 1	31.1	WH/BK	388.8	925
3805871	24 x 2 x 1	34.0	WH/BK	465.6	1094
3805872	30 x 2 x 1	37.8	WH/BK	580.8	1342
3805873	36 x 2 x 1	41.2	WH/BK	696.0	1599
3805880	1 x 2 x 1.5	8.6	BK/RD	33.6	89
3805881	1 x 2 x 1.5	8.6	BU/BN	33.6	89
3805882	2 x 2 x 1.5	12.3	WH/BK	62.4	163
3805883	3 x 2 x 1.5	14.2	WH/BK	91.2	216
3805884	4 x 2 x 1.5	16.1	WH/BK	120.0	277
3805885	6 x 2 x 1.5	19.4	WH/BK	177.6	396
3805886	8 x 2 x 1.5	22.1	WH/BK	235.2	520
3805887	10 x 2 x 1.5	24.6	WH/BK	292.8	634
3805888	12 x 2 x 1.5	26.8	WH/BK	350.4	743
3805889	15 x 2 x 1.5	29.7	WH/BK	436.8	921
3805890	20 x 2 x 1.5	34.1	WH/BK	580.8	1203
3805891	24 x 2 x 1.5	37.2	WH/BK	696.0	1426
3805892	30 x 2 x 1.5	41.4	WH/BK	868.8	1756
3805893	36 x 2 x 1.5	45.2	WH/BK	1,041.6	2094
3805900	1 x 2 x 2.5	10.3	BK/RD	52.8	123
3805901	1 x 2 x 2.5	10.3	BU/BN	52.8	123
3805902	2 x 2 x 2.5	14.7	WH/BK	100.8	231
3805903	3 x 2 x 2.5	17.0	WH/BK	148.8	314
3805904	4 x 2 x 2.5	19.4	WH/BK	196.8	405
3805905	6 x 2 x 2.5	23.4	WH/BK	292.8	585
3805906	8 x 2 x 2.5	26.8	WH/BK	388.8	768
3805907	10 x 2 x 2.5	29.7	WH/BK	484.8	942
3805908	12 x 2 x 2.5	32.4	WH/BK	580.8	1111
3805909	15 x 2 x 2.5	36.1	WH/BK	724.8	1378
3805910	20 x 2 x 2.5	41.4	WH/BK	964.8	1809
3805911	24 x 2 x 2.5	45.2	WH/BK	1,156.8	2150
3805912	30 x 2 x 2.5	50.3	WH/BK	1,444.8	2656
3805913	36 x 2 x 2.5	55.0	WH/BK	1,732.8	3171
Multicore					
3805921	2 x 1	8.0	BK/RD	24.0	75
3805922	2 x 1	8.0	BU/BN	24.0	75
3805923	3 x 1	8.6	WH	33.6	93
3805924	4 x 1	9.4	WH	43.2	113
3805925	5 x 1	10.3	WH	52.8	140

Article number	Number of pairs/conductor cross section (mm ²)	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
3805926	7 x 1	11.3	WH	72.0	175
3805927	8 x 1	12.8	WH	81.6	204
3805928	10 x 1	14.5	WH	100.8	253
3805929	12 x 1	15.1	WH	120.0	285
3805930	14 x 1	15.9	WH	139.2	324
3805931	16 x 1	16.8	WH	158.4	370
3805932	19 x 1	17.8	WH	187.2	422
3805933	24 x 1	21.0	WH	235.2	540
3805934	27 x 1	21.5	WH	264.0	589
3805935	30 x 1	22.4	WH	292.8	646
3805936	33 x 1	23.3	WH	321.6	710
3805937	37 x 1	24.3	WH	360.0	780
3805938	61 x 1	30.7	WH	590.4	1250
3805941	2 x 1.5	8.6	BK/RD	33.6	89
3805942	2 x 1.5	8.6	BU/BN	33.6	89
3805943	3 x 1.5	9.3	WH	48.0	114
3805944	4 x 1.5	10.2	WH	62.4	142
3805945	5 x 1.5	11.2	WH	76.8	177
3805946	7 x 1.5	12.3	WH	105.6	223
3805947	8 x 1.5	13.9	WH	120.0	260
3805948	10 x 1.5	15.8	WH	148.8	323
3805949	12 x 1.5	16.4	WH	177.6	367
3805950	14 x 1.5	17.3	WH	206.4	419
3805951	16 x 1.5	18.3	WH	235.2	479
3805952	19 x 1.5	19.4	WH	278.4	549
3805953	24 x 1.5	23.0	WH	350.4	697
3805954	27 x 1.5	23.5	WH	393.6	769
3805955	30 x 1.5	24.4	WH	436.8	846
3805956	33 x 1.5	25.5	WH	480.0	930
3805957	37 x 1.5	26.5	WH	537.6	1025
3805958	61 x 1.5	33.7	WH	883.2	1650
3805961	2 x 2.5	10.3	BK/RD	52.8	123
3805962	2 x 2.5	10.3	BU/BN	52.8	123
3805963	3 x 2.5	11.0	WH	76.8	162
3805964	4 x 2.5	12.1	WH	100.8	204
3805965	5 x 2.5	13.4	WH	124.8	257
3805966	7 x 2.5	14.7	WH	172.8	327
3805967	8 x 2.5	16.6	WH	196.8	381
3805968	10 x 2.5	19.0	WH	244.8	474
3805969	12 x 2.5	19.7	WH	292.8	545
3805970	14 x 2.5	20.8	WH	340.8	624
3805971	16 x 2.5	22.1	WH	388.8	715
3805972	19 x 2.5	23.4	WH	460.8	823
3805973	24 x 2.5	27.8	WH	580.8	1051
3805974	27 x 2.5	28.4	WH	652.8	1158
3805975	30 x 2.5	29.6	WH	724.8	1275
3805976	33 x 2.5	30.8	WH	796.8	1403
3805977	37 x 2.5	32.1	WH	892.8	1549
3805978	61 x 2.5	40.8	WH	1,468.8	2506

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For current information see: www.lappcableasia.lappgroup.com

New

FR-6387 SC

Fire resistant cables



Info

- Fire test certified and approved to BS 6387 Cat. CWZ
- Approved to SS 299 PLS Class 1A
- Single-core power cable, 0.6/1 kV

LAPP KABEL FR-6387 SC 1x16 0.6/1KV BS6387 CWZ TUV SUD PSB LISTED SS299-1 LIC 00273

Application range

- Specially designed to be use for wiring applications in critical life safety system in public and industrial buildings such as airports, hotels, hospitals, subways, train stations, etc.
- In building management systems, emergency lightings, standby power supplies, lifts and elevators
- Plant engineering and construction, industrial machinery, power station

Product features

- Flame retardant acc. to IEC 60332-1-2 and to IEC 60332-3-22
- Halogen free acc. to IEC 60754-1
- Acid and corrosive gases acc. to IEC 60754-2
- Smoke density test acc. to IEC 61034

Approvals (Norm references)



- Fire test certified and approved to BS 6387 Cat. CWZ
- Approved to SS 299 PLS Class 1A

Design

- Stranded plain annealed copper wire
- Mica based fire resistance tape
- LSHF insulation - flame retardant
- Colour: orange

Technical data



Approvals

BS 6387 Cat. CWZ, SS 299-1 PLS Class 1A



Conductor stranding

acc. to IEC 60228 Cl. 2



Minimum bending radius

10 x cable diameter



Nominal voltage

U₀/U: 600/1000 V

Test voltage

3500 V



Temperature range

-15 °C to +85 °C

Article number	Conductor cross-section (mm ²)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3806501	1.0	3.8	9.6	25
3806502	1.5	4.1	14.4	32
3806503	2.5	4.6	24.0	44
3806504	4.0	5.3	38.4	64
3806505	6.0	5.9	57.6	88
3806506	10.0	6.8	96.0	131
3806507	16.0	8.1	153.6	196
3806508	25.0	9.4	240.0	289
3806509	35.0	10.7	336.0	394
3806510	50.0	12.3	480.0	545
3806511	70.0	14.2	672.0	752
3806512	95.0	16.0	912.0	992
3806513	120.0	17.8	1,152.0	1243
3806514	150.0	19.7	1,440.0	1543
3806515	185.0	21.6	1,776.0	1889
3806516	240.0	24.3	2,304.0	2438
3806517	300.0	26.9	2,880.0	3017

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New

FR-6387 MC

Fire resistant cables

LAPP KABEL FR-6387 MC 4G2.5 0.6/1KV BS6387 CWZ TUV SUD PSB LISTED SS299-1 LIC 00273



Info

- Fire test certified and approved to BS 6387 Cat. CWZ
- Approved to SS 299 PLS Class 1A
- Multicore power cable, 0.6/1 kV

Application range

- Specially designed to be use for wiring applications in critical life safety system in public and industrial buildings such as airports, hotels, hospitals, subways, train stations, etc.
- In building management systems, emergency lightings, standby power supplies, lifts and elevators
- Plant engineering and construction, industrial machinery, power station

Product features

- Flame retardant acc. to IEC 60332-1-2 and to IEC 60332-3-22
- Halogen free acc. to IEC 60754-1
- Acid and corrosive gases acc. to IEC 60754-2
- Smoke density test acc. to IEC 61034

Approvals (Norm references)



- Fire test certified and approved to BS 6387 Cat. CWZ
- Approved to SS 299 PLS Class 1A

Design

- Stranded plain annealed copper wire
- Mica based fire resistance tape
- XLPE insulation
- LSHF outer sheath
- Colour: orange

Technical data



Approvals

BS 6387 Cat. CWZ, SS 299-1 PLS Class 1A



Conductor stranding

acc. to IEC 60228 Cl. 2



Minimum bending radius

10 x cable diameter



Nominal voltage

U₀/U: 600/1000 V

Test voltage

3500 V



Temperature range

-30°C to +90°C

Article number	No. of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3806521	2 x 1.5	10.0	28.8	126
3806522	2 x 2.5	10.9	48.0	160
3806523	2 x 4.0	12.3	76.8	218
3806524	2 x 6.0	13.6	115.2	285
3806525	2 x 10.0	15.5	192.0	404
3806526	2 x 16.0	17.8	307.2	573
3806527	2 x 25.0	21.4	480.0	852
3806531	3 x 1.5	10.7	43.2	151
3806532	3 x 2.5	11.6	72.0	195
3806533	3 x 4.0	13.2	115.2	270
3806534	3 x 6.0	14.5	172.8	359
3806535	3 x 10.0	16.6	288.0	520
3806536	3 x 16.0	19.1	460.8	748
3806537	3 x 25.0	23.0	720.0	1120
3806541	4 x 1.5	11.7	57.6	181
3806542	4 x 2.5	12.8	96.0	236
3806543	4 x 4.0	14.5	153.6	332
3806544	4 x 6.0	16.0	230.4	445
3806545	4 x 10.0	18.4	384.0	650
3806546	4 x 16.0	21.1	614.4	942
3806547	4 x 25.0	25.4	960.0	1416
3806551	5 x 1.5	12.8	72.0	215
3806552	5 x 2.5	14.1	120.0	283
3806553	5 x 4.0	16.0	192.0	399
3806554	5 x 6.0	17.7	288.0	538
3806555	5 x 10.0	20.3	480.0	790
3806556	5 x 16.0	23.3	768.0	1149
3806557	5 x 25.0	28.1	1,200.0	1732

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
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New

FR-6387 MC CONTROL

Fire resistant cables

LAPP KABEL FR-6387 MC CONTROL 6x2.5 300/500V BS6387 CWZ TUV SUD PSB LISTED SS299-1 LIC 00273



Info

- Fire test certified and approved to BS 6387 Cat. CWZ
- Approved to SS 299 PLS Class 1A
- Multicore control cable, 300/500 V

Application range

- Specially designed to be used for wiring applications in critical life safety system in public and industrial buildings such as airports, hotels, hospitals, subways, train stations, etc.
- In building management systems, emergency lightings, standby power supplies, lifts and elevators
- Plant engineering and construction, industrial machinery, power station

Product features

- Flame retardant acc. to IEC 60332-1-2 and to IEC 60332-3-22
- Halogen free acc. to IEC 60754-1
- Acid and corrosive gases acc. to IEC 60754-2
- Smoke density test acc. to IEC 61034

Approvals (Norm references)



- Fire test certified and approved to BS 6387 Cat. CWZ
- Approved to SS 299 PLS Class 1A

Design

- Stranded plain annealed copper wire
- Mica based fire resistance tape
- XLPE insulation
- Binder tape
- LSHF outer sheath
- Colour: orange

Technical data



Approvals

BS 6387 Cat. CWZ, SS 299-1 PLS Class 1A



Conductor stranding

acc. to IEC 60228 Cl. 2



Minimum bending radius

10 x cable diameter



Nominal voltage

U₀/U: 300/500 V

Test voltage

2000 V



Temperature range

-30 °C to +90 °C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
3806560	2 x 1	7.9	BK/RD	19.2	69
3806561	2 x 1	7.9	BK/WH	19.2	69
3806562	2 x 1	7.9	BU/BN	19.2	69
3806563	3 x 1	8.8	BN/BK/GY	28.8	88
3806564	4 x 1	9.6	BU/BN/BK/GY	38.4	110
3806565	5 x 1	10.5	GNYE/BU/BN/BK/GY	48.0	136
3806566	7 x 1	11.5	WH	67.2	170
3806567	8 x 1	13.0	WH	76.8	199
3806568	10 x 1	14.8	WH	96.0	255
3806569	12 x 1	15.3	WH	115.2	281
3806570	14 x 1	16.2	WH	134.4	321
3806571	16 x 1	17.1	WH	153.6	367
3806572	19 x 1	18.1	WH	182.4	420
3806573	24 x 1	21.4	WH	230.4	545
3806574	27 x 1	21.9	WH	259.2	588
3806575	30 x 1	22.7	WH	288.0	663
3806576	33 x 1	23.7	WH	316.8	706
3806577	37 x 1	24.7	WH	355.2	782
3806578	61 x 1	31.3	WH	585.6	1257
3806580	2 x 1.5	8.5	BK/RD	28.8	88
3806581	2 x 1.5	8.5	BK/WH	28.8	88
3806582	2 x 1.5	8.5	BU/BN	28.8	88
3806583	3 x 1.5	9.9	BN/BK/GY	43.2	115
3806584	4 x 1.5	10.9	BU/BN/BK/GY	57.6	147
3806585	5 x 1.5	12.0	GNYE/BU/BN/BK/GY	72.0	182
3806586	7 x 1.5	13.1	WH	100.8	230
3806587	8 x 1.5	14.8	WH	115.2	268
3806588	10 x 1.5	17.0	WH	144.0	346
3806589	12 x 1.5	17.6	WH	172.8	383
3806590	14 x 1.5	18.5	WH	201.6	438
3806591	16 x 1.5	19.6	WH	230.4	502
3806592	19 x 1.5	20.8	WH	273.6	576
3806593	24 x 1.5	24.6	WH	345.6	749
3806594	27 x 1.5	25.2	WH	388.8	810
3806595	30 x 1.5	26.2	WH	432.0	913
3806596	33 x 1.5	27.3	WH	475.2	974
3806597	37 x 1.5	28.5	WH	532.8	1081
3806598	61 x 1.5	36.1	WH	878.4	1746
3806600	2 x 2.5	10.5	BK/RD	48.0	118
3806601	2 x 2.5	10.5	BK/WH	48.0	118
3806602	2 x 2.5	10.5	BU/BN	48.0	118
3806603	3 x 2.5	11.2	BN/BK/GY	72.0	157
3806604	4 x 2.5	12.3	BU/BN/BK/GY	96.0	203
3806605	5 x 2.5	13.5	GNYE/BU/BN/BK/GY	120.0	253
3806606	7 x 2.5	14.9	WH	168.0	322
3806607	8 x 2.5	16.9	WH	192.0	376
3806608	10 x 2.5	19.3	WH	240.0	485
3806609	12 x 2.5	20.0	WH	288.0	541
3806610	14 x 2.5	21.1	WH	336.0	621
3806611	16 x 2.5	22.4	WH	384.0	713
3806612	19 x 2.5	23.7	WH	456.0	821
3806613	24 x 2.5	28.1	WH	576.0	1066
3806614	27 x 2.5	28.8	WH	648.0	1158
3806615	30 x 2.5	29.9	WH	720.0	1305
3806616	33 x 2.5	31.2	WH	792.0	1396
3806617	37 x 2.5	32.5	WH	888.0	1552
3806618	61 x 2.5	41.4	WH	1,464.0	2517

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Photographs are not to scale and do not represent detailed images of the respective products.

FR-6387 SC TWISTED

Fire resistant cables



Info

- Fire test certified and approved to BS 6387 Cat. CWZ, and SS 299 PLS Class 1A, reference to FR-6387 SC 1x1.5mm², PN: 3806502
- 2 single-core wire twisted, 0.6/1kV

Application range

- Specially designed to be use for wiring applications in critical life safety system in public and industrial buildings such as airports, hotels, hospitals, subways, train stations, etc.
- In building management systems, emergency lightings, standby power supplies, lifts and elevators

Product features

- Flame retardant acc. to IEC 60332-1-2 and to IEC 60332-3-22
- Halogen free acc. to IEC 60754-1
- Acid and corrosive gases acc. to IEC 60754-2
- Smoke density test acc. to IEC 61034

Approvals (Norm references)



- Fire test certified and approved to BS 6387 Cat. CWZ, and SS 299 PLS Class 1A, reference to FR-6387 SC 1x1.5mm², PN: 3806502

Design

- Stranded plain annealed copper wire
- Mica based fire resistance tape
- LSHF insulation - flame retardant
- 2 single-core wire twisted together
- Colour: Black/Red

Technical data



Based on
BS 6387, SS 299-1



Conductor stranding
acc. to IEC 60228 Cl. 2



Minimum bending radius
10 x cable diameter



Nominal voltage
U₀/U: 600/1000 V



Test voltage
3500 V



Temperature range
-15°C to +85°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3804079	2x (1x1.5) Twisted	8.2	28.8	64

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.

UNITRONIC® ST 20276



Info

- UL Style 20276
- UL-approved

Application range

- Suitable for wiring data systems with high transmission rates
- Especially designed for use as control and instrumentation cables
- For static laying in dry and damp environment

Product features

- Pair screening, offers optimum protection against external interference at medium and high frequencies
- Twisted cores and individual pair shielding ensures high Near End Cross Talk attenuation
- Flame retardant in acc. to IEC 60332-1-2



Approvals (Norm references)



Design

- Multi-wire strands of tinned copper wires
- PE core insulation
- Cores twisted together
- Individual pair aluminium foil screening
- Tinned copper drain wire
- PVC outer sheath
- Colour: chrome grey, RAL 7005

Technical data

- Core identification code**
black/red, and white/green
- Mutual capacitance**
C/C: approx. 115 pF/m
C/S: approx. 203 pF/m
- Peak operating voltage**
30 V
- Specific insulation resistance**
> 2 GOhm x km
- Inductivity**
approx. 0.55 mH/km
- Minimum bending radius**
10 x cable diameter
- Test voltage**
1000 V
- Temperature range**
-20 °C to +60 °C
- Characteristic impedance**
45 Ohm

Article number	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3800952	2x2x22 AWG	4.3	20.5	28.1

Photographs are not to scale and do not represent detailed images of the respective products.

UNITRONIC® ST 20253



Info

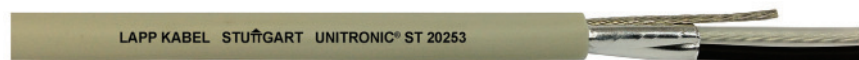
- Style 20253

Application range

- Internal wiring for audio, transmission measurement and control signals with minimum noise
- Cost effective and ideal for environment which less susceptible to noise
- For static laying in dry and damp environment

Product features

- 100% shielding, offers optimum protection against external interference at medium and high frequencies
- Ideal solution where flexibility and a high degree of screening is required
- Flame retardant in acc. to IEC 60332-1-2



Approvals (Norm references)



Design

- Multi-wire strands of tinned copper wires
- PE core insulation
- Cores twisted together
- Static screen of aluminium laminated plastic foil
- Tinned copper drain wire
- PVC outer sheath
- Colour: pebble grey, RAL 7032

Technical data

- Core identification code**
black, natural
- Mutual capacitance**
C/C: approx. 75 pF/m
C/S: approx. 144 pF/m
- Peak operating voltage**
600 V (not for power applications)
- Specific insulation resistance**
> 2 GOhm x km
- Inductivity**
approx. 0.65 mH/km
- Minimum bending radius**
10 x cable diameter
- Test voltage**
2000 V
- Temperature range**
-30 °C to +80 °C
- Characteristic impedance**
65 Ohm

Article number	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3800717	1x2x16 AWG	7.95	33.9	80

Photographs are not to scale and do not represent detailed images of the respective products.

UNITRONIC® ST 2464



■ Application range

- Suitable for use in instrumentation, industrial automation and process control application
- For use in dry and damp environment
- UV-resistant and impervious to moisture penetration

■ Product features

- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- Flame retardant in acc. to IEC 60332-1-2

■ Approvals (Norm references)



■ Design

- Multi-wire strands of bare copper wires
- SR-PVC core insulation
- Cores twisted together
- Overall screen of aluminium foil
- PVC outer sheath
- Bare copper drain wire
- Colour: black (RAL 9005)



Info

- UL Style 2464
- UL-approved

■ Technical data

	Core identification code 1-Pair: black/white 2-Pair: black/white, black/red
	Mutual capacitance C/C: approx. 200 pF/m C/S: approx. 370 pF/m
	Peak operating voltage 300 V (not for power applications)
	Specific insulation resistance > 2 GOhm x km
	Inductivity approx. 0.62 mH/km
	Minimum bending radius 10 x cable diameter
	Test voltage 1000 V
	Temperature range -30°C to +80°C
	Characteristic impedance 100 Ohm

Article number	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3800718	1x2x16 AWG	6.5	34.4	66
3803979	2x2x16 AWG	9.8	64.2	128

Photographs are not to scale and do not represent detailed images of the respective products.

UNITRONIC® ST 2919 PE



■ Application range

- Suitable for wiring of data systems with high transmission rates
- Designed for use as Data Highway (DH) RS 232, RS 422, and RS 485 interface
- Suitable for use as control and instrumentation cables
- Suitable for flexible and static laying in dry and damp locations

■ Product features

- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- Low capacitance, double screened
- Excellent shielding against internal and external interference

■ Approvals (Norm references)



■ Design

- Multi-wire strands of tinned copper wires
- PE core insulation
- Twisted pair
- Aluminium / mylar
- Tinned copper drain wire
- Tinned-copper braiding
- PVC outer sheath
- Colour: pebble grey, RAL 7032
Colour: chrome grey, RAL 7005



Info

- UL Style 2919
- UL-approved

■ Technical data

	Core identification code 1 pair: wh/bu stripe + bu/wh stripe 2 pair: wh/bu stripe + bu/wh stripe 2 pair: wh/og stripe + og/wh stripe
	Mutual capacitance C/C: approx. 42 pF/m C/S: approx. 76 pF/m
	Peak operating voltage 30 V (not for power applications)
	Specific insulation resistance > 2 GOhm x km
	Inductivity approx. 0.65 mH/km
	Minimum bending radius 10 x cable diameter
	Test voltage 1000 V
	Temperature range -30°C to +80°C
	Characteristic impedance 120 ohm

Article number	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3800765	1x2x24 AWG	5.9	21.3	46
3800953	2x2x24 AWG	8.8	32.9	86
3804582	1x2x22 AWG	6.8	28.7	62

Photographs are not to scale and do not represent detailed images of the respective products.



Info

- UL Style 2919
- UL-approved

Application range

- Suitable for audio, control and instrumentation measurements in environments immune to noise
- For use in dry and damp environment

Product features

- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- Flame retardant in acc. to IEC 60332-1-2

Approvals (Norm references)



Design

- Multi-wire strands of tinned annealed copper
- **PP core insulation**
- Twisted pair, individual pair screening of aluminium laminated foil
- Tinned copper drain wire
- PVC outer sheath
- Colour: pebble grey, RAL 7032

UNITRONIC® ST 2919 PP



Technical data

	Core identification code black/red, black/white, and black/green
	Mutual capacitance C/C: approx. 98 pF/m C/S: approx. 181 pF/m
	Peak operating voltage 30 V (not for power applications)
	Specific insulation resistance > 2 GOhm x km
	Inductivity approx. 0.65 mH/km
	Minimum bending radius 10 x cable diameter
	Test voltage 1000 V
	Temperature range -20 °C to +80 °C
	Characteristic impedance 50 Ohm

Article number	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3801708	3x2x22 AWG	6.95	25.7	62

Photographs are not to scale and do not represent detailed images of the respective products.



Info

- UL Style 2919
- UL-approved

Application range

- Designed for use as Data Highway (DH) RS 232, RS 422, and RS 485 interface
- Suitable for static laying in dry and damp condition

Product features

- Low capacitance
- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- Flexible for use in environment where space is a constraint
- Flame retardant in acc. to IEC 60332-1-2

Approvals (Norm references)



Design

- Multi-wire strands tinned copper wires
- Foam PE core insulation
- Cores twisted together
- Overall screening of aluminium laminated plastic foil
- Colour: chrome grey, RAL 7005
- Tinned copper drain wire
- PVC outer sheath
- Core insulation colour:
 Pair 1: wh/bu stripe + bu/wh stripe
 Pair 2: wh/og stripe + og/wh stripe
 Pair 3: wh/gn stripe + gn/wh stripe
 Pair 4: wh/bn stripe + bn/wh stripe
 Pair 5: wh/gy stripe + gy/wh stripe
 Pair 6: rd/bu stripe + bu/rd stripe
 Pair 7: rd/og stripe + og/rd stripe
 Pair 8: rd/gn stripe + gn/rd stripe
 Pair 9: rd/bn stripe + bn/rd stripe
 Pair 10: rd/gy stripe + gy/rd stripe
 Pair 11: bk/bu stripe + bu/bk stripe
 Pair 12: bk/og stripe + og/bk stripe
 Single conductor: grey

UNITRONIC® ST 2919 FPE



Technical data

	Mutual capacitance C/C: approx. 42 pF/m C/S: approx. 72 pF/m
	Peak operating voltage 30 V (not for power applications)
	Specific insulation resistance > 2 GOhm x km
	Inductivity approx. 0.7 mH/km
	Minimum bending radius 10 x cable diameter
	Test voltage 1000 V
	Temperature range -30 °C to +80 °C
	Characteristic impedance 100 Ohm

Article number	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3800950	2x2x24 AWG	6.3	10.5	46
3804943	3x2x24 AWG	6.65	14.7	42.2
3800951	4x2x24 AWG	7.1	19.0	55
3804946	6x2x24 AWG	8.1	27.3	74.9
3804947	12x2x24 AWG + 1x24 AWG	10.6	54.6	121.7

Photographs are not to scale and do not represent detailed images of the respective products.

UNITRONIC® ST 2095 PE

LAPP KABEL STUTTGART UNITRONIC® ST 2095 PE

■ Application range

- Suitable connection for audio, control signal and instrument measurement
- For use in dry and damp environment

■ Product features

- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- Flame retardant in acc. to IEC 60332-1-2

■ Approvals (Norm references)



■ Design

- Multi-wire strands of bare copper wires
- PE core insulation
- Overall screening with aluminium foil
- Tinned annealed copper drain wire
- PVC outer sheath
- Colour: pebble grey, RAL 7032



Info

- UL Style 2095
- UL-approved

■ Technical data



Core identification code
black, red, natural



Mutual capacitance
C/C: approx. 90 pF/m (20 AWG)
C/C: approx. 78.5 pF/m (18 AWG)
C/S: approx. 160 pF/m (20 AWG)
C/S: approx. 158 pF/m (18 AWG)



Peak operating voltage
300 V (not for power applications)



Minimum bending radius
10 x cable diameter



Test voltage
1000 V



Temperature range
-30°C to +80°C

Article number	Number of cores and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3804951	3x20 AWG	5.5	21.4	46
3804931	3x18 AWG	6.2	28.9	50

Photographs are not to scale and do not represent detailed images of the respective products.

UNITRONIC® ST 2095 PVC

LAPP KABEL STUTTGART UNITRONIC® ST 2095 PVC

■ Application range

- Suitable connection for security, alarm, intercom, and control measurement
- For use in dry and damp environment

■ Product features

- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- Flame retardant in acc. to IEC 60332-1-2

■ Approvals (Norm references)



■ Design

- Multi-wire strands of bare copper wires
- PVC core insulation
- Twisted pair, overall screening with aluminium foil
- Tinned annealed copper drain wire
- PVC outer sheath
- Colour: pebble grey, RAL 7032



Info

- UL Style 2095
- Security/Alarm cable
- UL-approved

■ Technical data



Core identification code
black/red and black/white



Mutual capacitance
C/C: approx. 116 pF/m
C/S: approx. 210 pF/m



Peak operating voltage
300 V (not for power applications)



Minimum bending radius
10 x cable diameter



Test voltage
1000 V



Temperature range
-20°C to +80°C

Article number	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3804565	2x2x18 AWG	6.7	39.3	74.2

Photographs are not to scale and do not represent detailed images of the respective products.

UNITRONIC® ST 2092



Info

- UL Style 2092
- UL-approved



Application range

- Internal wiring for audio, transmission measurement and control signals with minimum noise
- For static laying in dry and damp environment

Product features

- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- Ideal solution where flexibility and a high degree of screening is required
- Flame retardant in acc. to IEC 60332-1-2

Approvals (Norm references)



Design

- Multi-wire strands of tinned copper wires
- PE core insulation
- Cores twisted together
- Aluminium foil screening
- Tinned copper drain wire
- PVC outer sheath
- Colour: pebble grey, RAL 7032

Technical data

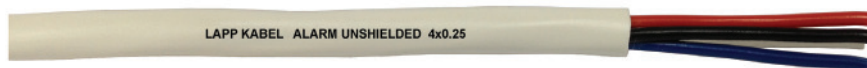
- Core identification code**
black, natural
- Mutual capacitance**
C/C: approx. 45 pF/m (24 AWG)
C/C: approx. 79 pF/m (22 AWG)
C/C: approx. 97 pF/m (18 AWG)
C/C: approx. 45 pF/m (16 AWG)
C/S: approx. 107 pF/m (24 AWG)
C/S: approx. 154 pF/m (22 AWG)
C/S: approx. 145 pF/m (18 AWG)
C/S: approx. 168 pF/m (16 AWG)
- Peak operating voltage**
300 V (not for power applications)
- Specific insulation resistance**
> 2 GOhm x km
- Inductivity**
approx. 0.65 mH/km
- Minimum bending radius**
10 x cable diameter
- Test voltage**
1000 V
- Temperature range**
-30 °C to +60 °C
- Characteristic impedance**
65 Ohm

Article number	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3804580	1x2x24 AWG	4.8	5.7	25.4
3800764	1x2x22 AWG	4.4	10.3	29
0033002	1x2x18 AWG	5.6	20.7	41
3804581	1x2x16 AWG	6.7	34.5	63.5
3804950	2x20 AWG	5.2	16.2	35

Photographs are not to scale and do not represent detailed images of the respective products.

New

ALARM CABLE



■ Application range

- Flexible cables normally used for the wiring of burglar and security alarm and other low voltage circuits
- Suitable for interconnection between control unit systems, sensors and alerting devices
- For indoor installation

■ Product features

- Flame retardant in acc. to IEC 60332-1-2

■ Approvals (Norm references)



■ Design

- Stranded bare annealed copper wires
- PVC core insulation
- PVC outer sheath, white



Info

- Unshielded

■ Technical data



Core identification code
4 core: RD/BK/WH/BU
6 core: RD/BK/WH/BU/YE/GN



Mutual capacitance
Approx. 120 nF/km, at 800 Hz



Peak operating voltage
50 Vrms (not for power applications)



Minimum bending radius
10 x cable diameter



Test voltage
1500 V



Temperature range
-30°C to +70°C

Article number	Number of core and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3804934	4x0.25	4.3	9.6	28.3
3804936	6x0.25	5.1	14.2	38.8

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Data communication systems

Low frequency data transmission cables

Characteristic impedance: 100 - 120 ohm

UNITRONIC® LiY(ST)Y



Info

- UL Style 2464
- UL-approved

■ Application range

- Suitable for use in data transmission for RS 232, RS 485 and control measurement
- For use in dry and damp environment

■ Product features

- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- UL-approved
- Flame retardant in acc. to IEC 60332-1-2

■ Approvals (Norm references)



■ Design

- Multi-wire strands of tinned annealed copper
- Semi-Rigid PVC core insulation
- Aluminium foil screening
- Tinned copper drain wire
- PVC outer sheath pebble grey, RAL 7032

■ Technical data



Core identification code
acc. to DIN 47100



Mutual capacitance
C/C: approx. 110 pF/m
C/S: approx. 215 pF/m



Peak operating voltage
300 V (not for power applications)



Minimum bending radius
10 x cable diameter



Test voltage
1000 V



Temperature range
-30°C to +80°C

Article number	Number of core and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3802841	3x24AWG	4.2	8.4	24.1
3802842	24x4AWG	4.7	10.5	30.41
3802843	6x24AWG	5.4	14.7	40.3
3802844	8x24AWG	5.7	18.9	46
3802845	15x24AWG	7.2	33.6	73
3802846	25x24AWG	8.6	54.5	124.4
3802847	30x24AWG	9.7	65.0	129.1

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For current information see: www.lappcableasia.lappgroup.com



Info

- UL Style 2464
- UL-approved



Application range

- Suitable for use in data transmission, audio and control measurement
- For use in dry and damp environment

Product features

- 100% screen coverage, offers optimum protection against external interference at medium and high frequencies
- UL-approved
- Flame retardant in acc. to IEC 60332-1-2

Approvals (Norm references)



Design

- Multi-wire strands of tinned annealed copper
- Semi-Rigid PVC core insulation
- Twisted pair
- Aluminium foil screening
- Tinned copper drain wire
- PVC outer sheath, pebble grey RAL 7032

Technical data



Core identification code
acc. to DIN 47100 (Twisted Pairs)
Pair 1: white / brown
Pair 2: green / yellow
Pair 3: grey / pink
Pair 4: blue / red
Pair 5: black / violet



Peak operating voltage
300 V (not for power applications)



Minimum bending radius
10 x cable diameter



Test voltage
1500 V



Temperature range
-30 °C to +80 °C

Article number	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3802856	1 x 2 x 24AWG	4.0	6.4	21.4
3803952	2 x 2 x 24AWG	5.1	10.5	33.9
3803953	3 x 2 x 24AWG	5.8	14.7	42.1
3803954	4 x 2 x 24AWG	6.4	18.9	51
3803955	5 x 2 x 24AWG	6.9	23.1	59.8
3802855	1 x 2 x 22AWG	4.6	9.8	31.5
3803960	2 x 2 x 22AWG	5.6	16.3	42.8
3803961	3 x 2 x 22AWG	6.4	22.8	54.3
3803962	4 x 2 x 22 AWG	7.1	29.4	66.4
3803963	5 x 2 x 22 AWG	7.7	35.9	79
3802854	1 x 2 x 20AWG	5.1	15.3	41.3
3803990	2 x 2 x 20AWG	6.3	25.5	58.7
3803991	3 x 2 x 20AWG	7.3	35.7	73.5
3803992	4 x 2 x 20AWG	8.1	45.9	90.4
3803993	5 x 2 x 20 AWG	8.8	56.1	108.5
3803970	1 x 2 x 18AWG	5.6	23.4	48.7
3803971	2 x 2 x 18AWG	7.7	39.0	78.5
3803972	3 x 2 x 18AWG	8.4	54.6	99.2
3803973	4 x 2 x 18AWG	9.4	70.2	123.1
3803974	5 x 2 x 18AWG	10.2	85.8	147.7
3803980	1 x 2 x 16AWG	6.3	38.0	68.1
3803981	2 x 2 x 16AWG	8.2	63.4	111
3803982	3 x 2 x 16AWG	9.6	88.7	141.2
3803983	4 x 2 x 16AWG	10.8	114.1	176.6
3803984	5 x 2 x 16AWG	11.8	139.4	213.3

Photographs are not to scale and do not represent detailed images of the respective products.

New

Li9Y(ST)Y



■ Application range

- Suitable for audio, control and instrumentation measurements in environments immune to noise
- For use in dry and damp environment

■ Product features

- Flame retardant in acc. to IEC 60332-1-2

■ Approvals (Norm references)



■ Design

- Stranded tinned annealed copper wires
- PP core insulation
- Overall screen of Al/My tape + stranded tinned copper drain wire
- PVC outer sheath, pebble grey



Info

- Shielding
- 100 Ohm

■ Technical data



Core identification code

Pair #1: WH/BU Pair #2: WH/OG
 Pair #3: WH/GN Pair #4: WH/BN
 Pair #5: WH/GY Pair #6: RD/BU
 Pair #7: RD/OG Pair #8: RD/GN
 Pair #9: RD/BN Pair #10: RD/GY
 Pair #11: BK/BU Pair #12: BK/OG
 Pair #13: BK/GN Pair #14: BK/BN
 Pair #15: BK/GY Pair #16: YE/BU
 Pair #17: YE/OG Pair #18: YE/GN
 Pair #19: YE/BN Pair #20: YE/GY
 Pair #21: VT/BU Pair #22: VT/OG
 Pair #23: VT/GN Pair #24: VT/BN
 Pair #25: VT/GY



Mutual capacitance

nom. 130 pF/m, at 1 kHz



Test voltage

1000 V



Temperature range

-10°C to +80°C



Characteristic impedance

100 Ohm

Article number	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3802781	1 x 2 x 24AWG/7	4.2	6.3	21.1
3802782	2 x 2 x 24AWG/7	5.4	10.6	33.3
3802783	3 x 2 x 24AWG/7	6.0	14.8	39.5
3802784	4 x 2 x 24AWG/7	6.6	19.0	47
3802785	6 x 2 x 24AWG/7	7.6	27.5	62.3
3802786	8 x 2 x 24AWG/7	8.5	35.9	78.6
3802787	10 x 2 x 24AWG/7	9.2	44.4	93.8
3802788	12 x 2 x 24AWG/7	9.9	52.8	107.7
3802789	16 x 2 x 24AWG/7	11.1	69.8	138.8
3802790	25 x 2 x 24AWG/7	13.4	107.8	198.6

Photographs are not to scale and do not represent detailed images of the respective products.

New

J-2Y(ST)H-TP



■ Application range

- Data cable for digital communication in a LONWORKS® networks and building automation systems
- Also suitable for use in distributed control network in factory and process automation systems
- For indoor installation
- LONWORKS® is a trademark of ECHELON

■ Product features

- Offers optimum protection against external interferences
- Low smoke halogen free in acc. to IEC 61034 and IEC 60754-2
- Flame retardant in acc. to IEC 60332-1-2

■ Approvals (Norm references)



■ Design

- Solid bare annealed copper wires
- PE core insulation
- Cores twisted together
- Aluminium laminated polyester foil screen + solid tinned annealed copper drain wire
- LSHF outer sheath, white



Info

- LONWORKS®
- 100 Ohm

■ Technical data



Core identification code

Pair #1: BU + WH/BU
 Pair #2: OG + WH/OG



Mutual capacitance

max. 17 pF/ft (core-core)



Peak operating voltage

300 V (not for power applications)



Specific insulation resistance

> 5 GOhm x km



Minimum bending radius

5 x cable diameter (static)



Temperature range

-20°C to +75°C (static)



Characteristic impedance

100 ± 15 Ohm

Article number	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3802596	1 x 2 x 22AWG/1	4.6	8.5	25
3802597	2 x 2 x 22AWG/1	6.5	15.0	39

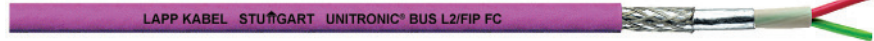
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UNITRONIC® BUS L2/FIP FC



Info

- Fast Connect (FC) cable design
- PROFIBUS



Application range

- For stationary installation for Bus Systems 150 Ohm impedance
- Dry and damp indoors

Product features

- This bus cable can be used for PROFIBUSDP as well as for PROFIBUS-FMS and FIP
- Based on the bit rates listed, in accordance with PNO specifications the following maximum cable lengths for a bus segment apply (cable type A, PROFIBUS-DP):
93.75 kbit/s = 1200 m
187.5 kbit/s = 1000 m
500 kbit/s = 400 m
1.5 Mbit/s = 200 m
12.0 Mbit/s = 100 m
- Flame retardant in acc. to IEC 60332-1-2

Approvals (Norm references)



- In accordance with DIN 19245 and EN 50170, e.g. for SIEMENS SIMATIC NET, also suitable for FIP (Factory Instrumentation Protocol)

Design

- Single wire of bare copper
- Foam PE core insulation
Cores twisted together
- Plastic foil wrapping
- Aluminium-mylar tape screen + tinned copper wire braiding
- PVC outer sheath, violet RAL 4001

Technical data

- Core identification code**
red, green
- Mutual capacitance**
(800 Hz): max. 30 nF/km
- Peak operating voltage**
(not for power applications) 250 V
- Conductor resistance**
(loop): max. 115 ohm/km
- Minimum bending radius**
Fixed installation: 10 x outer diameter
- Test voltage**
1500 V
- Temperature range**
-40°C - +80°C
- Characteristic impedance**
150 ± 15 Ohm

Article number	Number of pairs and conductor diameter (mm)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
2170320	1x2x0.64	8.0	26.0	84

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.

UNITRONIC® BUS FF



Info

- FOUNDATION™ Fieldbus cable is suitable for data communication network for industrial process control instruments

Application range

- Stationary application
- Indoor / outdoor applications

Approvals (Norm references)



- Unarmoured version: UL AWM Style 2464 and CMX rated

Design

For RE-2X(ST)Y :

- Stranded bare annealed copper wires
 - Cross-link polyethylene insulation
 - Cores twisted into pair
 - Al-My pair shielding + tinned copper drain wire
- Note: 2 - 4 pairs with additional overall shielding of Al-My + tinned copper drain wire.
- PVC outer sheath - Flame retardant, orange

For RE-2X(ST)CY :

- Stranded bare annealed copper wires
 - Cross-link polyethylene insulation
 - Cores twisted into pair
 - Al-My pair shielding + tinned annealed copper drain wire
- Note: 2 - 4 pairs with additional overall shielding of Al-My + tinned copper drain wire.
- Tinned copper wire braiding
 - PVC outer sheath - Flame retardant, orange

Technical data



Core identification code

see table below
(Note: for multipair cable, blue colour core has number marking)



Mutual capacitance

C/C: max. 65 nF/km
C/S: max. 125 nF/km



Peak operating voltage

300 V (not for power applications)



Specific insulation resistance

> 20 MOhm x km



Minimum bending radius

10 x cable diameter (Unarmoured version)



Test voltage

1500 V



Temperature range

-30°C to +80°C



Characteristic impedance

100 +/- 20 Ohm at 31.25 kHz

Article number	Number of pairs and AWG per conductor	Outer diameter (mm)	Core insulation colour	Outer sheath colour	Copper index (kg/km)	Weight (kg/km)
RE-2X(ST)Y						
3804881	1 x 2 x 18 AWG	7.8	BU/OG	OG	20.5	67
3804881A	1 x 2 x 18 AWG	7.8	BU/BN	OG	20.5	67
3804882	2 x 2 x 18 AWG	11.8	BU/OG	OG	45.9	109.8
3804882A	2 x 2 x 18 AWG	11.8	BU/BN	OG	45.9	109.8
3804883	3 x 2 x 18 AWG	13.6	BU/OG	OG	66.4	151.8
3804883A	3 x 2 x 18 AWG	13.6	BU/BN	OG	66.4	151.8
3804884	4 x 2 x 18 AWG	15.3	BU/OG	OG	87.0	180.5
3804884A	4 x 2 x 18 AWG	15.3	BU/BN	OG	87.0	180.5
3804886	1 x 2 x 16 AWG	9.4	BU/OG	OG	32.4	99
3804886A	1 x 2 x 16 AWG	9.4	BU/BN	OG	32.4	99
3804887	2 x 2 x 16 AWG	14.8	BU/OG	OG	69.9	155.2
3804887A	2 x 2 x 16 AWG	14.8	BU/BN	OG	69.9	155.2
3804888	3 x 2 x 16 AWG	16.7	BU/OG	OG	102.3	214.2
3804888A	3 x 2 x 16 AWG	16.7	BU/BN	OG	102.3	214.2
3804889	4 x 2 x 16 AWG	19.2	BU/OG	OG	134.7	274.7
3804889A	4 x 2 x 16 AWG	19.2	BU/BN	OG	134.7	274.7
RE-2X(ST)CY						
3804901	1 x 2 x 18 AWG	7.9	BU/OG	OG	40.0	83.4
3804901A	1 x 2 x 18 AWG	7.9	BU/BN	OG	40.0	83.4
3804902	2 x 2 x 18 AWG	10.8	BU/OG	OG	70.5	124.7
3804902A	2 x 2 x 18 AWG	10.8	BU/BN	OG	70.5	124.7
3804903	3 x 2 x 18 AWG	12.7	BU/OG	OG	89.6	162.3
3804903A	3 x 2 x 18 AWG	12.7	BU/BN	OG	89.6	162.3
3804904	4 x 2 x 18 AWG	14.7	BU/OG	OG	114.8	197
3804904A	4 x 2 x 18 AWG	14.7	BU/BN	OG	114.8	197
3804906	1 x 2 x 16 AWG	9.9	BU/OG	OG	66.7	125.1
3804906A	1 x 2 x 16 AWG	9.9	BU/BN	OG	66.7	125.1
3804907	2 x 2 x 16 AWG	13.8	BU/OG	OG	105.2	191
3804907A	2 x 2 x 16 AWG	13.8	BU/BN	OG	105.2	191
3804908	3 x 2 x 16 AWG	16.2	BU/OG	OG	142.3	249
3804908A	3 x 2 x 16 AWG	16.2	BU/BN	OG	142.3	249
3804909	4 x 2 x 16 AWG	18.5	BU/OG	OG	174.8	303.7
3804909A	4 x 2 x 16 AWG	18.5	BU/BN	OG	174.8	303.7

Photographs are not to scale and do not represent detailed images of the respective products.



Info

- DeviceNet

UNITRONIC® BUS DeviceNet THICK + THIN



■ Application range

- Stationary application
- DeviceNet™ connects industrial devices e.g. limit switches, photoelectric switches, valve islands, motor starters, drives, PLCs, etc.
- DeviceNet™ Bus system (Rockwell Automation)

■ Product features

- Based on proven CAN (Controller Area Network) technology.
- Permissible cable lengths vary with the data rate and the cable thickness
- THICK cable total trunk length
 - 125 kbit/s = 500 m
 - 250 kbit/s = 250 m
 - 500 kbit/s = 100 m
- THIN cable total trunk length
 - 125 kbit/s = 6 m
 - 250 kbit/s = 6 m
 - 500 kbit/s = 6 m

■ Approvals (Norm references)



■ Design

- Stranded tinned copper conductor
- PE core insulation
- PVC outer sheath
- Colour: chrome grey, RAL 7005

■ Technical data

- Core identification code**
Data pair: light blue + white
Power supply: red + black
- Mutual capacitance**
(800 Hz): max. 40 nF/km
- Peak operating voltage**
300 V (not for power applications)
- Conductor resistance**
Thick (loop): max. 45 ohm/km
Thin (loop): max. 180 ohm/km
- Minimum bending radius**
Fixed installation:
10 x cable diameter
- Test voltage**
1000 V
- Temperature range**
Fixed installation: -20°C to +70°C
- Characteristic impedance**
at 1 MHz: 120 +/- 10 Ohm

Article number	Article designation	Number of pair and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3801234	DeviceNet THICK	1x2x18AWG + 1x2x15AWG	12.0	80.9	158.7
3801235	DeviceNet THIN	1x2x24AWG + 1x2x22AWG	7.2	30.5	66.9

Photographs are not to scale and do not represent detailed images of the respective products.

Coaxial cables

High frequencies

UNITRONIC® TWINAXIAL



Info

- Industrial twinaxial, 78 Ohm

Application range

- Industrial Data Solutions IDS, Programmable Logic Controllers PLC

Product features

- Screen and braiding coverage, offers optimum protection against external interferences
- Reference number: AB 1770-CD
- Flame retardant in acc. to IEC 60332-1-2

Approvals (Norm references)



Design

- Strands of tinned copper conductor
- HDPE core insulation
- Aluminium foil polyester tape screened
- Tinned copper drain wire
- Tinned copper wire braid, approx. 55% coverage
- PVC outer sheath, light blue RAL 5015

Technical data



Core identification code
blue/white



Mutual capacitance
C/C: approx. 64.5 pF/m
C/S: approx. 118 pF/m



Peak operating voltage
300 V (not for power applications)



Minimum bending radius
10 x cable diameter



Test voltage
1500 V



Temperature range
-20°C to +75°C



Characteristic impedance
78 +/- 3 Ohm

Article number	Number of pair and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3800844	1x2x20AWG	6.3	24.6	53.6

Photographs are not to scale and do not represent detailed images of the respective products.

COAXIAL RG SERIES RG 59/U, RG 6/90, RG 11/U



Info

- 75 Ohm

Benefits

- Broadband for low loss attenuation of high frequency signal

Application range

- CATV and data networking
- Optimizing frequency up to 1000 MHz
- Suitable for use in dry and damp areas

Product features

- Double screen, offer good screening against external interference
- UV-resistant
- Flame retardant in acc. to IEC 60332-1-2

Approvals (Norm references)



- TUV SUD PSB type test for 3801313

Design

- Bare copper clad steel solid conductor
- Foam PE insulation
- Aluminium foil bonded, 100% coverage
- Aluminium wire braiding
- PVC outer sheath, black

Technical data



Mutual capacitance
53.1 pF/m



Minimum bending radius
Fixed installation:
10 x cable diameter



Temperature range
Fixed installation: -30°C to +80°C



Characteristic impedance
75 +/- 3 Ohm

Article number	Article designation	Conductor cross-section	Outer diameter (mm)	Working voltage in V	Copper index (kg/km)	Weight (kg/km)
3800768	RG 59/U	1x20 AWG	6.0	350	0.3	33
3801313	RG 6/90	1x18 AWG	6.8	350	0.5	43
3800720	RG 11/U	1x14 AWG	10.2	600	1.2	100

Photographs are not to scale and do not represent detailed images of the respective products.

New

COAXIAL RG 59/U (CCTV)



Info

- CCTV + CATV
- 75 Ohm, solid copper

Application range

- CCTV and CATV video transmission and data networking
- RF/Data communication, 75 Ohm
- Indoor and outdoor (non burial) application

Product features

- Offer good screening against external interference
- Flame retardant acc. to IEC 60332-1-2



Approvals (Norm references)



Design

- Solid bare copper conductor
- PE core insulation
- Bare copper wire braiding, approx. 95% coverage
- PVC outer sheath, black

Technical data

	Mutual capacitance 67.2 pF/m, C-S
	Peak operating voltage 300 Vrms max.
	Conductor resistance max. 66.9 Ohm/km Attenuation loss 11.0 dB/100m, at 100 MHz 40.0 dB/100m, at 1000 MHz
	Minimum bending radius 10 x cable diameter
	Test voltage 1000 V
	Temperature range -30 °C to +70 °C
	Characteristic impedance 75 +/- 3 Ohm

Article number	Conductor cross-section	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3803951	1x23 AWG	6.14	23.8	49.0

Photographs are not to scale and do not represent detailed images of the respective products.

New

COAXIAL RG 6/U (CCTV)



Info

- CCTV + CATV
- 75 Ohm, solid copper

Application range

- CCTV and CATV video transmission and data networking
- RF/Data communication, 75 Ohm
- Indoor and outdoor (non burial) application

Product features

- Offer good screening against external interference
- Flame retardant acc. to IEC 60332-1-2



Approvals (Norm references)



Design

- Solid bare copper conductor
- Foam PE core insulation
- Aluminium tape
- Bare copper wire braiding, approx. 95% coverage
- PVC outer sheath, black

Technical data

	Mutual capacitance nom. 54.2 pF/m, C-S
	Peak operating voltage 300 Vrms max.
	Conductor resistance max. 22 Ohm/km Attenuation loss 12.0 dB/100m, at 300 MHz 21.0 dB/100m, at 1000 MHz
	Minimum bending radius 10 x cable diameter
	Test voltage 2500 V
	Temperature range -30 °C to +70 °C
	Characteristic impedance 75 +/- 3 Ohm

Article number	Conductor cross-section	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3804606	1x18 AWG	6.91	26.7	55.8

Photographs are not to scale and do not represent detailed images of the respective products.

Coaxial cables

High frequencies

COAXIAL RG LSHF SERIES RG 6/90 LSHF, RG 11/60 LSHF



Info

- Low smoke halogen-free

Benefits

- Broadband for low loss attenuation of high frequency signal

Application range

- CATV video transmission and data networking
- Optimizing frequency up to 1000 MHz
- Suitable for use in dry and damp areas

Product features

- Double screen, offer good screening against external interference
- Flame retardant acc. to IEC 60332-1-2, IEC 60332-3-24
- Halogen free acc. to IEC 60754-1
- UV-resistant

Approvals (Norm references)



Design

- Bare copper plated steel solid conductor
- PE core insulation
- Aluminium foil bonded, 100% coverage Aluminium wire braiding
- LSHF outer sheath
- Colour: black

Technical data



Mutual capacitance
53.1 pF/m



Minimum bending radius
Fixed installation:
10 x cable diameter



Temperature range
Fixed installation: -30°C to +80°C

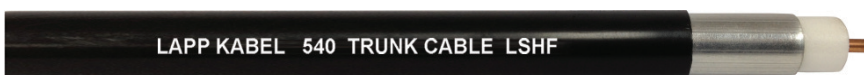


Characteristic impedance
75 +/- 3 Ohm

Article number	Article designation	Conductor cross-section	Outer diameter (mm)	Working voltage in V	Copper index (kg/km)	Weight (kg/km)
3801537	RG 6/90 LSHF	1x18 AWG	6.9	350	0.5	43
3801538	RG 11/60 LSHF	1x14 AWG	10.0	600	1.2	100

Photographs are not to scale and do not represent detailed images of the respective products.

540 TRUNK CABLE LSHF



Info

- Welded Al tube
- Low smoke halogen-free

Benefits

- Broadband for low loss attenuation of high frequency signal

Application range

- CATV video transmission and data networking
- Optimizing frequency up to 1000 MHz
- Suitable for use in dry and damp areas

Product features

- Welded aluminium tube screen, offer good screening against external interference
- Flame retardant acc. to IEC 60332-3-24
- Halogen free acc. to IEC 60754-1
- UV-resistant

Approvals (Norm references)



Design

- Bare copper clad Al solid conductor
- PE insulation
- Welded Al tube screen
- LSHF outer sheath
- Colour: black

Technical data



Mutual capacitance
55.2 pF/km (nom.)



Conductor resistance
7.62 dB/100m at 1GHz



Minimum bending radius
Fixed installation:
10 x cable diameter



Temperature range
Fixed installation: -30°C to +80°C



Characteristic impedance
75 +/- 3 Ohm

Article number	Article designation	Conductor diameter (mm)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3801539	540 TRUNK LSHF	3.15	15.5	0.5	116

Photographs are not to scale and do not represent detailed images of the respective products.

RG TUNNEL COAX



Info

- Leaky coax
- 75 Ohm



Benefits

- Signal transmission by RF leaky concept

Application range

- Suitable for RF and data transmission in tunnels, mining areas, subway, underground facility

Product features

- Leaky coax constructed with railing of parallel bare copper for homogenous transmission
- Optimized up to 600 MHz in VHF/UHF Transmission and data networking
- Flame retardant in acc. to IEC 60332-1-2

Approvals (Norm references)



Design

- Solid bare copper conductor
- Foam PE insulation, white
- Railing of parallel bare copper wire with PE mylar embed
- PE compound bedding, black
- PVC compound outer sheath, yellow

Technical data

	Mutual capacitance 60 dB at 85 MHz 70 dB at 150 MHz
	Conductor resistance DCR loop 8.7 Ohm/km Insulation resistance Min. 1000 MOhm x km Attenuation loss @ 600 MHz approx. 8.35 dB/100m
	Minimum bending radius Fixed installation: 10 x cable diameter
	Temperature range Fixed installation: -30°C to +80°C
	Characteristic impedance 75 +/- 3 Ohm

Article number	Article designation	Conductor diameter (mm)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3803150	SLYWV7510BC	2.3	15.5	78.2	205

Photographs are not to scale and do not represent detailed images of the respective products.

UNITRONIC® LAN 200 UTP CAT.5e

LAPP KABEL STUTTGART UNITRONIC® LAN 200 UTP CAT.5e



Info

- PVC or Halogen-free outer sheath
- Solid conductor
- 200 MHz

Application range

- Data transfer for horizontal network backbone for wiring office administration and development buildings
- Cable run should not exceed 100 m in acc. to ISO/IEC 11801 and EN 50173

Product features

- Transmission rate up to 200 MHz
- Flame retardant acc. to IEC 60332-1-2
- Halogen free acc. to IEC 60754-1 (for Halogenfree outer sheath only)

Approvals (Norm references)



Design

- Solid bare conductor
- PE core insulation
- PVC or Halogen-free outer sheath
- Colour: pebble grey, RAL 7032
- Packaging: 305 m/box

Technical data



Core identification code

- Pair 1: blue + white/blue
- Pair 2: orange + white/orange
- Pair 3: green + white/green
- Pair 4: brown + white/brown



Mutual capacitance

max. 56.0 pF/m (core-core)



Minimum bending radius

Fixed installation: 4 x cable diameter



Temperature range

-20°C to +70°C



Characteristic impedance

100 +/-15 Ohm at 100 MHz

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Outer sheath type	Copper index (kg/km)	Weight (kg/km)
2170125K	LAN 200 UTP CAT.5e	4x2x24 AWG	5.1	PVC	14.9	29.0
3803999K	LAN 200 UTP-H CAT.5e	4x2x24 AWG	5.1	Halogen-free	14.9	29.0

Photographs are not to scale and do not represent detailed images of the respective products.

UNITRONIC® LAN 250 UTP CAT.6

LAPP KABEL STUTTGART UNITRONIC® LAN 250 UTP CAT.6



Info

- PVC or Halogen-free outer sheath
- Solid conductor
- 250 MHz

Application range

- Data transfer for horizontal network backbone for wiring office administration and development buildings
- Cable run should not exceed 100 m in acc. to ISO/IEC 11801 and EN 50173

Product features

- Transmission rate up to 250 MHz
- Flame retardant acc. to IEC 60332-1-2
- Halogen free acc. to IEC 60754-1 (for Halogenfree outer sheath only)

Approvals (Norm references)



Design

- Solid bare conductor
- PE core insulation
- PVC or Halogen-free outer sheath
- Colour: pebble grey, RAL 7032
- Packaging: 305 m/box

Technical data



Core identification code

- Pair 1: blue + white/blue
- Pair 2: orange + white/orange
- Pair 3: green + white/green
- Pair 4: brown + white/brown



Mutual capacitance

max. 56.0 pF/m (core-core)



Minimum bending radius

Fixed installation: 4 x cable diameter



Temperature range

-20°C to +70°C



Characteristic impedance

100 +/-15 Ohm at 100 MHz

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Outer sheath type	Copper index (kg/km)	Weight (kg/km)
3801501K	LAN 250 UTP CAT.6	4x2x23 AWG	6.4	PVC	17.9	40.0
3804000K	LAN 250 UTP-H CAT.6	4x2x23 AWG	6.4	Halogen-free	17.9	40.0

Photographs are not to scale and do not represent detailed images of the respective products.



Info

- Suitable for SWA cables
- Flameproof
- Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas
- Restricted Breathing

E1FW CABLE GLAND

Suitable for Steel Wire Armoured (SWA) cables



Application range

- The CMP E1FW Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21, and Zone 22, provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14

Product features

- CMP Type E1FW Tri-Star Triple Certified Flameproof (Type d), Increased Safety (Type e), and Restricted Breathing (Type nR) cable gland for use in Zone 1, Zone 2, Zone 21, and Zone 22 Hazardous Areas with Steel Wire Armour (SWA) cable
- Provides a Flameproof seal on the cable inner bedding
- Gas tight seal has been tested to prove compatibility with Restricted Breathing equipment
- Allows mechanical cable retention and earth continuity via the cable armour termination

Approvals (Norm references)

- ATEX Certification: SIRA06ATEX 1097X
Code of Protection Category:
ATEX II 2GD/3GD Ex d IIC, Ex e II, Ex nR II,
Ex tD A21 IP66, - Equipment Z one 1, Z one 2,
Z one 21, and Z one 22, - Gas Groups IIA, IIB
II C, ATEX IM2 Ex d I / Ex e I
Compliance Standards:
EN 60079-0:2004, EN 60079-1:2004,
EN 60079-7:2003, EN 60079-15:2003,
EN 61241-0:2004, EN 61241-1:2004

- IECEx Approval Number: IECEx SIR 06.0043_x
Code of Protection Category:
Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66,
Ex d I, Ex e I
Compliance Standards:
IEC 60079-0:2004, IEC 60079-1:2003,
IEC 60079-7:2001, IEC 60079-15:2005,
IEC 61241-0:2004, IEC 61241-1:2004
- GOST R Certificate Number:
POCC GB. 05.B01912
Code of Protection Category:
Ex d IIC U / Ex e II U
GOST Compliance Standards:
OCT P 52350.0-2005,
OCT P 52350.1-2005,
OCT P 52350.7-2005.
- GGTN Permit Number: PPC 00-18262
GOST K Certificate Number:
K Z 7500052.05.01.00063
RoK Permit for Use Number: 08-067693
- INMETRO / UC Approval: MC, AEX -7618-X
Code of Protection Category:
BR-Ex d IIC / BR-Ex e II / IP66W
Compliance Standards:
IEC 60079-0/00, IEC 60079-1/01,
IEC 60079-7/01, and NBR IEC 60529/05

Design

- E1FW Tri-Star Type
- BS 6121: Part 1: 1989, EN 50262: 1999

Technical data



Note

Cable Type: Steel Wire Armour (SWA)
Armour Clamping: Detachable armour cone and anyway universal clamping ring
Sealing Technique: CMP inner displacement and unique CMP LRS™ outer seal - Load Retention Seal
Sealing Areas: Cable inner bedding and cable outer sheath
Optional Accessories: Locknut, Shourd, Entry thread sealing washer, Serrated washer, Earth tag, Adaptot/Reducer



Material

Body: Brass
Seal: CMP SOLO LSF Thermoplastic Elastomer



Protection rating

IP66 as standard, IP67 / IP68 available on request. Deluge Proof when fitted with optional CMP O-ring in the cable gland body joint



Temperature range

-60 °C up to +130 °C

Article number	Article designation / size	Metric	Cable Bedding Diameter (mm)	Armour range (mm)	Overall Cable Diameter (mm)	Approx. weight (kg)
3804460	20S/16	M20	3.1 - 8.7	0.9 - 1.0	6.1 - 11.5	0.2
3804461	20S	M20	6.1 - 11.7	0.9 - 1.25	9.5 - 15.9	0.2
3804462	20	M20	6.5 - 14	0.9 - 1.25	12.5 - 20.9	0.2
3804463	25S	M25	11.1 - 20	1.25 - 1.6	14.0 - 22.0	0.3
3804464	25	M25	11.1 - 20	1.25 - 1.6	18.2 - 26.2	0.3
3804465	32	M32	17 - 26.3	1.6 - 2.0	23.7 - 33.9	0.5
3804466	40	M40	22 - 32.2	1.6 - 2.0	27.9 - 40.4	0.7
3804467	50S	M50	29.5 - 38.2	2.0 - 2.5	35.2 - 46.7	0.7
3804468	50	M50	35.6 - 44.1	2.0 - 2.5	40.4 - 53.1	0.7
3804469	63S	M63	40.1 - 50	2.0 - 2.5	45.6 - 59.4	1.3
3804470	63	M63	47.2 - 56	2.0 - 2.5	54.6 - 65.9	1.4
3804471	75S	M75	52.8 - 62	2.0 - 2.5	59.0 - 72.1	2.1
3804472	75	M75	59.1 - 68	2.0 - 2.5	66.7 - 78.5	2.6
3804473	90	M90	66.6 - 80	3.15	76.2 - 90.4	4.2

Photographs are not to scale and do not represent detailed images of the respective products.

E1FX CABLE GLAND

Suitable for Steel Wire Armoured (SWA) cables



Info

- Suitable for PWA, STA, ASA cables
- Flameproof
- Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas
- Restricted Breathing

■ Application range

- The CMP E1FW Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21, and Zone 22, provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14

■ Product features

- CMP Type E1FW Tri-Star Triple Certified Flameproof (Type d), Increased Safety (Type e), and Restricted Breathing (Type nR) cable gland for use in Zone 1, Zone 2, Zone 21, and Zone 22 Hazardous Areas with Steel Wire Armour (SWA) cable
- Provides a Flameproof seal on the cable inner bedding
- Gas tight seal has been tested to prove compatibility with Restricted Breathing equipment
- Allows mechanical cable retention and earth continuity via the cable armour termination

■ Approvals (Norm references)

- ATEX Certification: SIRA06ATEX 1097X
Code of Protection Category:
ATEX II 2GD/3GD Ex d IIC, Ex e II, Ex nR II,
Ex tD A21 IP66, - Equipment Z one 1, Z one 2,
Z one 21, and Z one 22, - Gas Groups IIA, IIB
II C, ATEX IM2 Ex d I / Ex e I
Compliance Standards:
EN 60079-0:2004, EN 60079-1:2004,
EN 60079-7:2003, EN 60079-15:2003,
EN 61241-0:2004, EN 61241-1:2004

- IECEx Approval Number: IECEx SIR 06.0043_x
Code of Protection Category:
Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66,
Ex d I, Ex e I
Compliance Standards:
IEC 60079-0:2004, IEC 60079-1:2003,
IEC 60079-7:2001, IEC 60079-15:2005,
IEC 61241-0:2004, IEC 61241-1:2004
- GOST R Certificate Number:
POCC GB. 05.B01912
Code of Protection Category:
Ex d IIC U / Ex e II U
GOST Compliance Standards:
OCT P 52350.0-2005,
OCT P 52350.1-2005,
OCT P 52350.7-2005.
- GGTN Permit Number: PPC 00-18262
GOST K Certificate Number:
K Z 7500052.05.01.00063
RoK Permit for Use Number: 08-067693
- INMETRO / UC Approval: MC, AEX -7618-X
Code of Protection Category:
BR-Ex d IIC / BR-Ex e II / IP66W
Compliance Standards:
IEC 60079-0/00, IEC 60079-1/01,
IEC 60079-7/01, and NBR IEC 60529/05

■ Design

- E1FW Tri-Star Type
- BS 6121: Part 1: 1989, EN 50262: 1999

■ Technical data



Note

Cable Type: Wire Braid Armour, Screened Flexible Wire Braid (e.g. CY/SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA), Armoured and jacketed
Armour Clamping: Detachable armour cone and anyway universal clamping ring
Sealing Technique: CMP inner displacement and unique CMP LRS™ outer seal - Load Retention Seal
Sealing Areas: Cable inner bedding and cable outer sheath
Optional Accessories: Locknut, Shourd, Entry thread sealing washer, Serrated washer, Earth tag, Adaptot/Reducer



Material

Body: Brass
Seal: CMP SOLO LSF Thermoplastic Elastomer



Protection rating

IP66 as standard, IP67 / IP68 available on request. Deluge Proof when fitted with optional CMP O-ring in the cable gland body joint



Temperature range

-60°C up to +130°C

Article number	Article designation / size	Metric	Cable Bedding Diameter (mm)	Armour range (mm)	Overall Cable Diameter (mm)	Approx. weight (kg)
3804480	20S/16	M20	3.1 - 8.7	0.9 - 1.0	6.1 - 11.5	0,2
3804481	20S	M20	6.1 - 11.7	0.9 - 1.25	9.5 - 15.9	0,2
3804482	20	M20	6.5 - 14.0	0.9 - 1.25	12.5 - 20.9	0,2
3804483	25S	M25	11.1 - 20.0	1.25 - 1.6	14 - 22	0,3
3804484	25	M25	11.1 - 20.0	1.25 - 1.6	18.2 - 26.2	0,3
3804485	32	M32	17.0 - 26.3	1.6 - 2.0	23.7 - 33.9	0,5
3804486	40	M40	22.0 - 32.2	1.6 - 2.0	27.9 - 40.4	0,7
3804487	50S	M50	29.5 - 38.2	2.0 - 2.5	35.2 - 46.7	0,8
3804488	50	M50	35.6 - 44.1	2.0 - 2.5	40.4 - 53.1	0,8
3804489	63S	M63	40.1 - 50.0	2.0 - 2.5	45.6 - 59.4	1,4
3804490	63	M63	47.2 - 56.0	2.0 - 2.5	54.6 - 65.9	1,5
3804491	75S	M75	52.8 - 62.0	2.0 - 2.5	59 - 72.1	2,1
3804492	75	M75	59.1 - 68.0	2.0 - 2.5	66.7 - 78.5	2,7
3804493	90	M90	66.6 - 80.0	3.15	76.2 - 90.4	4,3

Photographs are not to scale and do not represent detailed images of the respective products.


Info

- Suitable for SWA, STA, AWA, ASA, and PWA armour cables
- Flameproof
- Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas
- Restricted Breathing

E1FU CABLE GLAND

Suitable for Steel Wire Armoured (SWA) cables



Application range

- The CMP E1FW Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21, and Zone 22, provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14

Product features

- CMP Type E1FW Tri-Star Triple Certified Flameproof (Type d), Increased Safety (Type e), and Restricted Breathing (Type nR) cable gland for use in Zone 1, Zone 2, Zone 21, and Zone 22 Hazardous Areas with Steel Wire Armour (SWA) cable
- Provides a Flameproof seal on the cable inner bedding
- Gas tight seal has been tested to prove compatibility with Restricted Breathing equipment
- Allows mechanical cable retention and earth continuity via the cable armour termination

Approvals (Norm references)

- ATEX Certification: SIRA06ATEX 1097X
Code of Protection Category:
ATEX II 2GD/3GD Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66, - Equipment Z one 1, Z one 2, Z one 21, and Z one 22, - Gas Groups IIA, IIB II C, ATEX IM2 Ex d I / Ex e I
Compliance Standards:
EN 60079-0:2004, EN 60079-1:2004, EN 60079-7:2003, EN 60079-15:2003, EN 61241-0:2004, EN 61241-1:2004

- IECEx Approval Number: IECEx SIR 06.0043_x
Code of Protection Category:
Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66, Ex d I, Ex e I
Compliance Standards:
IEC 60079-0:2004, IEC 60079-1:2003, IEC 60079-7:2001, IEC 60079-15:2005, IEC 61241-0:2004, IEC 61241-1:2004
- GOST R Certificate Number:
POCC GB. 05.B01912
Code of Protection Category:
Ex d IIC U / Ex e II U
GOST Compliance Standards:
OCT P 52350.0-2005, OCT P 52350.1-2005, OCT P 52350.7-2005.
- GGTN Permit Number: PPC 00-18262
GOST K Certificate Number:
K Z 7500052.05.01.00063
RoK Permit for Use Number: 08-067693

Design

- E1FW Tri-Star Type
- BS 6121: Part 1: 1989, EN 50262: 1999

Technical data



Note
Cable Type: Steel Wire Armour (SWA), Aluminium Wire Armour (AWA), Steel Tape Armour (STA), Wire Braid Armour, Aluminium Strip Armour (ASA), Pliable Wire Armour (PWA), Screened Flexible Wire Braid (e.g. CY/SY), Armoured jacketed
Armour Clamping: Reversible armour cone and anyway universal clamping ring
Sealing Technique: CMP inner displacement and unique CMP LRS™ outer seal - Load Retention Seal
Sealing Areas: Cable inner bedding and cable outer sheath
Optional Accessories: Locknut, Shourd, Entry thread sealing washer, Serrated washer, Earth tag, Adaptot/Reducer



Material
Body: Brass
Seal: CMP SOLO LSF Thermoplastic Elastomer



Protection rating
IP66 as standard, IP67 / IP68 available on request. Deluge Proof when fitted with optional CMP O-ring in the cable gland body joint

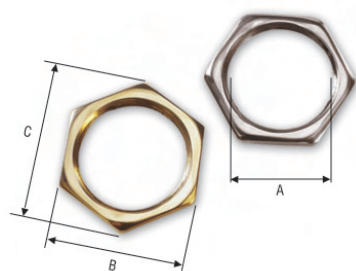


Temperature range
-60 °C up to +130 °C

Article number	Article designation / size	Metric	Cable Bedding Diameter (mm)	Armour range (mm)	Overall Cable Diameter (mm)	Approx. weight (kg)
3804440	20S/16	M20	3.1 - 8.7	0.9 - 1.0	6.1 - 11.5	0,2
3804441	20S	M20	6.1 - 11.7	0.9 - 1.25	9.5 - 15.9	0,2
3804442	20	M20	6.5 - 14.0	0.9 - 1.25	12.5 - 20.9	0,2
3804443	25S	M25	11.1 - 20.0	1.25 - 1.6	14 - 22	0,3
3804444	25	M25	11.1 - 20.0	1.25 - 1.6	18.2 - 26.2	0,3
3804445	32	M32	17.0 - 26.3	1.6 - 2.0	23.7 - 33.9	0,5
3804446	40	M40	22.0 - 32.2	1.6 - 2.0	27.9 - 40.4	0,7
3804447	50S	M50	29.5 - 38.2	2.0 - 2.5	35.2 - 46.7	0,8
3804448	50	M50	35.6 - 44.1	2.0 - 2.5	40.4 - 53.1	0,8
3804449	63S	M63	40.1 - 50.0	2.0 - 2.5	45.6 - 59.4	1,4
3804450	63	M63	47.2 - 56.0	2.0 - 2.5	54.6 - 65.9	1,5
3804451	75S	M75	52.8 - 62.0	2.0 - 2.5	59 - 72.1	2,2
3804452	75	M75	59.1 - 68.0	2.0 - 2.5	66.7 - 78.5	2,8
3804453	90	M90	66.6 - 80.0	3.15	76.2 - 90.4	4,4

Photographs are not to scale and do not represent detailed images of the respective products.

LOCKNUTS



■ Application range

- Brass Locknuts are the recommended items used in securing brass cable glands, unions, adaptors, reducer, and stopper plugs to a gland plate or into equipment

■ Technical data

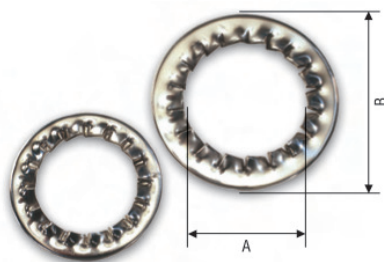


Material
Brass

Article number	Article designation / size	Thread Diameter	Min. thickness (mm)	Across flats dimension, 'B' (mm)	Across corners diameters, 'C' (mm)
3804500	16LN	M16 x 1.5	3.2	22.0	25.4
3804501	20LN	M20 x 1.5	3.2	24.0	28.6
3804502	25LN	M25 x 1.5	3.2	30.0	35.0
3804503	32LN	M32 x 1.5	3.2	36.0	42.0
3804504	40LN	M40 x 1.5	4.8	46.0	53.0
3804505	50LN	M50 x 1.5	6.3	55.0	64.0
3804506	63LN	M63 x 1.5	6.3	70.0	81.0
3804507	75LN	M75 x 1.5	6.3	80.0	98.0
3804508	90LN	M90 x 2	9.5	108.0	125.0

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SERRATED WASHERS



■ Application range

- Available in Stainless Steel as standard, these shake-proof Serrated Washers fitted internally to the equipment and before a locknut act as an anti-vibration device to prevent the cable gland or other cable entry device a locknut arrangement from inadvertently loosening in service

■ Technical data



Material
Stainless Steel

Article number	Article designation / size	Reference Diameter, 'A'	Min. thickness (mm)	External Diameter, 'B' (mm)
3804511	16SW4	M16	3.3	25.4
3804512	20SW4	M20	3.7	32.0
3804513	25SW4	M25	3.7	40.0
3804514	32SW4	M32	3.7	44.0
3804515	40SW4	M40	3.7	59.0
3804516	50SW4	M50	3.7	80.0
3804517	63SW4	M63	4.5	100.0
3804518	75SW4	M75	5.0	112.0
3804519	90SW4	M90	5.0	120.0

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EARTH TAGS



■ Application range

- CMP slip on earth tags, installed between the cable gland and equipment, provided an earth bond connection as specified in BS6121:Part 5 :1993 and also complies with category B rating specified in BS EN 50262:1999. The following table of fault current ratings relates to CMP Brass Earth Tags

■ Technical data



Material
Brass

Article number	Article designation / size	Reference Diameter, 'A'	Min. thickness (mm)	Nominal Diameter, 'C' (mm)	Hole Size, 'D' (mm)	Nominal Length, 'E' (mm)
3804525	16ET	M16	1.5	25.4	M6	49.3
3804526	20ET	M20	1.5	27.1	M6	53.4
3804527	25ET	M25	1.5	35.1	M6	59.4
3804528	32ET	M32	1.5	45.2	M12	77.0
3804529	40ET	M40	1.5	53.7	M13	88.7
3804530	50ET	M50	1.5	65.2	M13	111.1
3804531	63ET	M63	1.5	82.6	M13	128.6
3804532	75ET	M75	1.5	95.4	M13	141.1
3804533	90ET	M90	1.5	114.2	M13	161.0

Photographs are not to scale and do not represent detailed images of the respective products.

SHROUDS

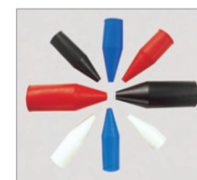
Application range

- CMP manufacture a range of push on shrouds which are used to minimise the risk of dirt or foreign substances gathering on the Cable Gland body, and/or point of cable to gland interface. Standard shrouds are produced in Black PVC
- Colour Coded Shrouds: PVC, PCP and LSF shrouds are also manufacture in alternative colours including red, blue, and white, to suit a wide variety of customer requirements, other colours are available

Technical data



Material
PVC



Article number	Gland Type	E1W
3804535	20S / 16	PVC02
3804536	20S	PVC04
3804537	20	PVC06
3804538	25	PVC09
3804539	32	PVC11
3804540	40	PVC15
3804541	50S	PVC18
3804542	50	PVC21
3804543	63S	PVC23
3804544	63	PVC25
3804545	75S	PVC28
3804546	75	PVC30
3804547	90	PVC32

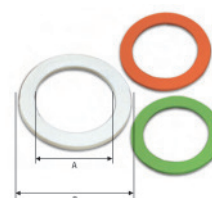
Photographs are not to scale and do not represent detailed images of the respective products.

ENTRY THREAD SEALING WASHER

Application range

- To maintain the Ingress Protection rating between the equipment and cable gland it may be at the gland entry interface. For Explosion Prone necessary to fit an Entry Thread Sealing washer tecton equipment it is essential to maintain the integrity of the degree of Ingress Protection at which the equipment has been rated.

- The need for a sealing washer will very much depend on the Ingress Protection rating and code of protection of the equipment and the type of entry holes available within that equipment.
- The CMP Entry Thread Sealing washers are produced in 2 mm thick white nylon as standard which are recommended and meet the specified requirements of Shell's Offshore operations.



Article number	Article designation / size	Reference Diameter, 'A'	Min. thickness (mm)	External Diameter, 'B' (mm)
3804550	16ETS2	M16	2	25.4
3804551	20ETS2	M20	2	28.6
3804552	25ETS2	M25	2	35.0
3804553	32ETS2	M32	2	44.5
3804554	40ETS2	M40	2	50.8
3804555	50ETS2	M50	2	65.0
3804556	63ETS2	M63	2	76.2
3804557	75ETS2	M75	2	95.0
3804558	90ETS2	M90	2	110.0

Photographs are not to scale and do not represent detailed images of the respective products.

T11 Selection Table

T11: Conductor Resistances and Conductor Make-up (metric)

Conductor Resistances and Conductor Make-up (metric)

Conductor Resistances: for annealed-copper-conductors in single- and multicore cables $\geq 0.5 \text{ mm}^2$ acc. to DIN EN 60228 (VDE 0295)

Nominal cross-section in mm^2	Conductor resistance for 20 °C for 1 km in Ω (maximum value)			
	of metal coated copper wire		of bare copper wire	
	Class 2	Class 5 + 6	Class 2	Class 5 + 6
0.08		250.0		243.0
0.14		142.0		138.0
0.25		82.0		79.0
0.34		59.0		57.0
0.5	36.7	40.1	36.0	39.0
0.75	24.8	26.7	24.5	26.0
1	18.2	20.0	18.1	19.5
1.5	12.2	13.7	12.1	13.3
2.5	7.56	8.21	7.41	7.98
4	4.70	5.09	4.61	4.95
6	3.11	3.39	3.08	3.30
10	1.84	1.95	1.83	1.91
16	1.16	1.24	1.15	1.21
25	0.734	0.795	0.727	0.780
35	0.529	0.565	0.524	0.554
50	0.391	0.393	0.387	0.386
70	0.270	0.277	0.268	0.272
95	0.195	0.210	0.193	0.206
120	0.154	0.164	0.153	0.161
150	0.126	0.132	0.124	0.129
185	0.100	0.108	0.0991	0.106
240	0.0762	0.0817	0.0754	0.0801
300	0.0607	0.0654	0.0601	0.0641
400	0.0475		0.0470	
500	0.0369		0.0366	
630	0.0286		0.0283	
800	0.0224		0.0221	
1000	0.0177		0.0176	

Examples of Conductor Make-up (metric)

Cross section in mm^2	Multi-Wire Strands	Multi-Wire Strands	Fine-Wire Strands	Super-Fine-Wire Strands			
0.14				~ 18 x 0.10	~ 18 x 0.1	~ 36 x 0.07	~ 72 x 0.05
0.25			~ 14 x 0.15	~ 32 x 0.10	~ 32 x 0.1	~ 65 x 0.07	~ 128 x 0.05
0.34		7 x 0.25	~ 19 x 0.15	~ 42 x 0.10	~ 42 x 0.1	~ 88 x 0.07	~ 174 x 0.05
0.38		7 x 0.27	~ 12 x 0.20	~ 21 x 0.15	~ 48 x 0.1	~ 100 x 0.07	~ 194 x 0.05
0.5	7 x 0.30	7 x 0.30	~ 16 x 0.20	~ 28 x 0.15	~ 64 x 0.1	~ 131 x 0.07	~ 256 x 0.05
0.75	7 x 0.37	7 x 0.37	~ 24 x 0.20	~ 42 x 0.15	~ 96 x 0.1	~ 195 x 0.07	~ 384 x 0.05
1.0	7 x 0.43	7 x 0.43	~ 32 x 0.20	~ 56 x 0.15	~ 128 x 0.1	~ 260 x 0.07	~ 512 x 0.05
1.5	7 x 0.52	7 x 0.52	~ 30 x 0.25	~ 84 x 0.15	~ 192 x 0.1	~ 392 x 0.07	~ 768 x 0.05
2.5	7 x 0.67	~ 19 x 0.41	~ 50 x 0.25	~ 140 x 0.15	~ 320 x 0.1	~ 651 x 0.07	~ 1280 x 0.05
4	7 x 0.85	~ 19 x 0.52	~ 56 x 0.30	~ 224 x 0.15	~ 512 x 0.1	~ 1040 x 0.07	
6	7 x 1.05	~ 19 x 0.64	~ 84 x 0.30	~ 192 x 0.20	~ 768 x 0.1	~ 1560 x 0.07	
10	7 x 1.35	~ 49 x 0.51	~ 80 x 0.40	~ 320 x 0.20	~ 1280 x 0.1	~ 2600 x 0.07	
16	7 x 1.70	~ 49 x 0.65	~ 128 x 0.40	~ 512 x 0.20	~ 2048 x 0.1		
25	7 x 2.13	~ 84 x 0.62	~ 200 x 0.40	~ 800 x 0.20	~ 3200 x 0.1		
35	7 x 2.52	~ 133 x 0.58	~ 280 x 0.40	~ 1120 x 0.20			
50	~ 19 x 1.83	~ 133 x 0.69	~ 400 x 0.40	~ 705 x 0.30			
70	~ 19 x 2.17	~ 189 x 0.69	~ 356 x 0.50	~ 990 x 0.30			
95	~ 19 x 2.52	~ 259 x 0.69	~ 485 x 0.50	~ 1340 x 0.30			
120	~ 37 x 2.03	~ 336 x 0.67	~ 614 x 0.50	~ 1690 x 0.30			
150	~ 37 x 2.27	~ 392 x 0.69	~ 765 x 0.50	~ 2123 x 0.30			
185	~ 37 x 2.52	~ 494 x 0.69	~ 944 x 0.50	~ 1470 x 0.40			
240	~ 37 x 2.87	~ 627 x 0.70	~ 1225 x 0.50	~ 1905 x 0.40			
300	~ 61 x 2.50	~ 790 x 0.70	~ 1530 x 0.50	~ 2385 x 0.40			
400	~ 61 x 2.89		~ 2035 x 0.50				
500	~ 61 x 3.23		~ 1768 x 0.60				
630	~ 91 x 2.97		~ 2286 x 0.60				
Visualisation:	Multi-wire Strands			Fine-wire Strands		Super Fine-wire Strands	
							

Note: Guidelines have been established for measuring conductor sizes with the European Cable Industry. In the past, conductors were normally measured by their cross-sectional area, number and diameter of individual strands or both. The new current systems for the flexible conductors centers around the maximum strand diameter and the conductor resistance. In view of this, some cables may have less strands and a smaller diameter than listed above but still conform to BS 6360, VDE 0295, IEC 60228 by meeting conductor resistance requirements.

Table 31-1: acc. to VDE 0293-308 / BS 7671:2004

Core Identification Code for Low Voltage Power Cables

Number of conductors	For cable range OLFLEX® POWER TPR 90 MC as acc. to VDE 0293-308		For cable range OLFLEX® POWER LV As acc. to BS 7671:2004
	Cables with protective conductor (G)	Cables without protective conductor (X)	
2	–	BU/BN	BU/BN
3	GNYE/BN/BU	BN/BK/GY	BN/BK/GY
4	GNYE/BN/BK/GY	BU/BN/BK/GY	BU/BN/BK/GY
5	GNYE/BU/BN/BK/GY	BU/BN/BK/GY/BK	BU/BN/BK/GY/GNYE
6 and more	GNYE/Black cores with numbering	Black cores with numbering	White cores with numbering

Table 31-2: acc. to AS/NZS 5000.1 / BS 7671:2001 (old)

Number of conductors	For cable range FR-3013 Multicore		For cable range AS ORANGE / BLACK CIRCULAR acc. to AS/NZS 5000.1
	As acc. to AS/NZS 5000.1	As acc. to BS 7671:2001	
1	Natural	Natural	–
2	RD/BK	RD/BK	–
2 + Earth	GNYE/RD/BK	–	GNYE/RD/BK
3	RD/WH/BU	RD/YE/BU	–
3 + Earth	GNYE/RD/WH/BU	–	GNYE/RD/WH/BU
4	RD/WH/BU/BK	RD/YE/BU/BK	–
4 + Earth	GNYE/RD/WH/BU/BK	–	GNYE/RD/WH/BU/BK
6 and more	GNYE/White cores with numbering	–	GNYE/White cores with numbering

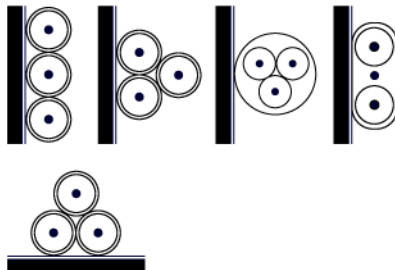
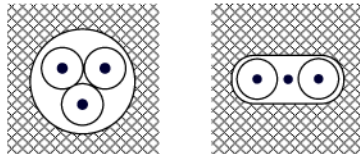
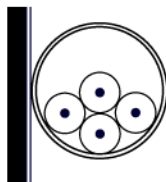
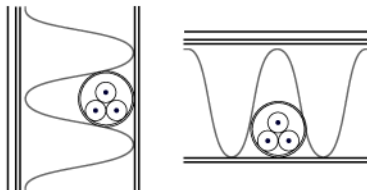
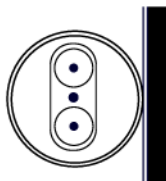
Table 31-3: acc. to DIN 47100

Core Identification Code for Data Cables

Core No.	Colour	Core No.	Colour	Core No.	Colour	Core No.	Colour
1	white	17	white/grey	33	green/red	49	white/green/black
2	brown	18	grey/brown	34	yellow/red	50	brown/green/black
3	green	19	white/pink	35	green/black	51	white/yellow/black
4	yellow	20	pink/brown	36	yellow/black	52	yellow/brown/black
5	grey	21	white/blue	37	grey/blue	53	white/grey/black
6	pink	22	brown/blue	38	pink/blue	54	grey/brown/black
7	blue	23	white/red	39	grey/red	55	white/pink/black
8	red	24	brown/red	40	pink/red	56	pink/brown/black
9	black	25	white/black	41	grey/black	57	white/blue/black
10	violet	26	brown/black	42	pink/black	58	brown/blue/black
11	grey/pink	27	grey/green	43	blue/black	59	white/red/black
12	red/blue	28	yellow/grey	44	red/black	60	brown/red/black
13	white/green	29	pink/green	45	white/brown/black	61	black /white
14	brown/green	30	yellow/pink	46	yellow/green/black		
15	white/yellow	31	green/blue	47	grey/pink/black		
16	yellow/brown	32	yellow/blue	48	red/blue/black		

The first colour indicates the basic colour of the core insulation, the second colour indicates the colour of the printed ring.
Where three colours are indicated, the second and third colours are printed on the basic colour.

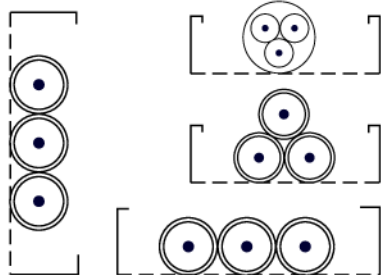
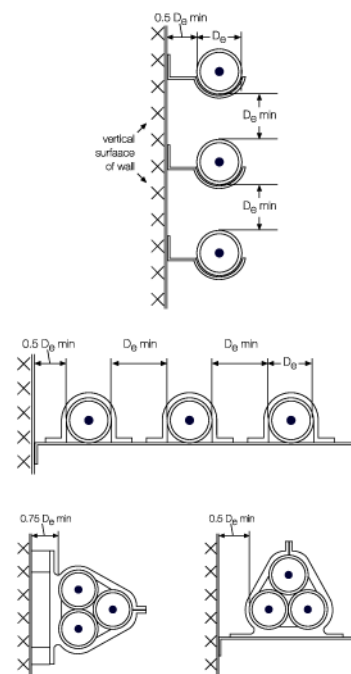
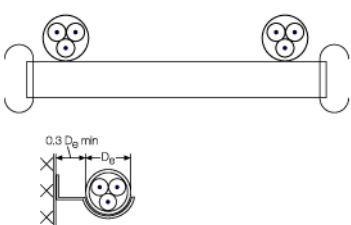
Table 32-1: Method of Installation of Cables

Installation Method	Examples	Appropriate Reference Method for Determining Current-Rating Capacity
Description		
OPEN AND CLIPPED DIRECT		
Sheathed cables clipped direct to or lying on a non-metallic surface		Method 1
CABLES EMBEDDED DIRECT IN BUILDING MATERIALS		
Sheathed cables embedded directly in masonry, brickwork, concrete, plaster or the like (other than thermally insulating materials).		Method 1
CONDUIT		
Single core non-sheathed cables in metallic or non-metallic conduit on a wall or ceiling		Method 3
† Single core non-sheathed cables in metallic or non-metallic conduit in a thermally insulating wall or above a thermally insulating ceiling, the conduit being in contact with a thermally conductive surface on one side		Method 4
Multicore cables having non-metallic sheath, in metallic or non-metallic conduit on a wall or ceiling		Method 3

† The wall is assumed to consist of an outer weatherproof skin, thermal insulation and an inner skin of plasterboard or wood-like material having a coefficient of heat transfer not less than 10 W/m²K. The conduit is fixed so as to be close to, but not necessarily touching, the inner skin. Heat from the cables is assumed to escape through the inner skin only.

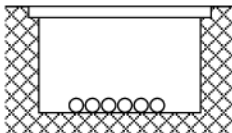
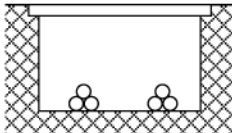
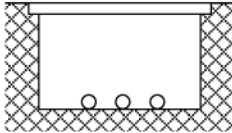
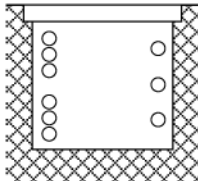
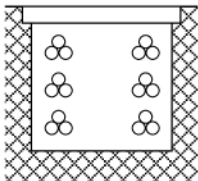
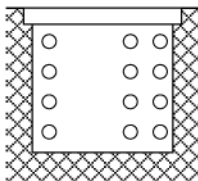
Disclaimer: Reference to BS 7671 Standard. Material provided is for reference only, please refer to the latest version of the BS 7671 Standard.

Table 32-2: Method of Installation of Cables

Installation Method	Examples	Appropriate Reference Method for Determining Current-Rating Capacity
Description		
ON TRAYS		
Sheathed cables on a perforated cable tray, bunched and unenclosed. A perforated cable tray is considered as a tray in which the holes occupy at least 30% of the surface area		Method 11
IN FREE AIR, ON CLEATS, BRACKETS OR A LADDER		
Sheathed single-core cables in free air (any supporting metalwork under the cables occupying less than 10% of the plan area): Two or three cables vertically one above the other, minimum distance between cable surfaces equal to the overall cable diameter (D_0); distance from the wall not less than $0.5 D_0$ Two or three cables horizontally, with spacings as above Three cables in trefoil, distance between wall and surface of nearest cable $0.5 D_0$ or nearest cables $0.75 D_0$		Method 12
Sheathed multicore cables on ladder or brackets, separation greater than $2 D_0$ Sheathed multicore cables in free air distance between wall and cable surface not less than $0.3 D_0$ Any supporting metalwork under the cables occupying less than 10% of the plan area		Method 13
Cables suspended from or incorporating a catenary wire		Method 12 or 13, as appropriate

Disclaimer: Reference to BS 7671 Standard. Material provided is for reference only, please refer to the latest version of the BS 7671 Standard.

Table 32-3: Method of Installation of Cables

Installation Method	Examples	Appropriate Reference Method for Determining Current-Rating Capacity
Description		
CABLES IN TRENCHES		
Cables in enclosed trench 450 mm wide by 300 mm deep (minimum dimensions) including 100 mm cover	 Two single-core cables with surfaces separated by a minimum of one cable diameter  Three single-core cables in trefoil and touching throughout  Multicore cables or groups of single-core cables with surfaces separated by a minimum of 50 mm	Method 18 Use rating factors in Technical Table 3-14
Cables in enclosed trench 450 mm wide by 600 mm deep (minimum dimensions) including 100 mm cover	Single-core cables arranged in flat groups of two or three on the vertical trench wall with surfaces separated by one diameter with a minimum distance of 50 mm between groups. Multicore cables installed with surfaces separated by a minimum * of 75 mm. All cables spaced at least 25 mm from the trenched wall 	Method 19 Use rating factors in Technical Table 3-14
Cables in enclosed trench 600 mm wide by 760 mm deep (minimum dimensions) including 100 mm cover	Single-core cables arranged in groups of two or three in flat formation with the surfaces separated by one diameter or in trefoil formation with cables touching  Groups separated by a minimum* of 50 mm either horizontally or vertically. Multi core cables installed with surfaces separated by a minimum* of 75 mm either horizontally or vertically. All cables spaced at least 25 mm from the trench wall 	Method 20 Use rating factors in Technical Table 3-14

* Larger spacing to be used where practicable

Disclaimer: Reference to BS 7671 Standard. Material provided is for reference only, please refer to the latest version of the BS 7671 Standard.

Table 32-4: Current Rating and Voltage Drop

Single-core cables having PVC Insulation, Unarmoured, With or Without Sheath (Copper Conductor) 450/750 V or 600/1000 V
Cable Categories: ÖLFLEX® POWER LV (N)YY (Single-core)

Current Rating Capacities (Amp)

Conductor Cross-sectional Area	Reference Method 4 (enclosed in conduit in thermally insulating wall etc)		Reference Method 3 (enclosed in conduit on a wall or in trunking etc)		Reference Method 1 (clipped direct)		Reference Method 11 (on a perforated cable tray, horizontal or vertical)		Reference Method 12 (free air)		
	2 cables 1-phase ac or dc		3 or 4 cables 3-phase ac		2 cables 1-phase ac or dc		3 or 4 cables 3-phase ac		Horizontal flat spaced	Vertical flat spaced	Trefoil
	2	3	2	3	2	3	2	3	2	2	3
1 mm²	A	A	A	A	A	A	A	A	A	A	A
1	11	10.5	13.5	12	15.5	14	-	-	-	-	-
1.5	14.5	13.5	17.5	15.5	20	18	-	-	-	-	-
2.5	19.5	18	24	21	27	25	-	-	-	-	-
4	26	24	32	28	37	33	-	-	-	-	-
6	34	31	41	36	47	43	-	-	-	-	-
10	46	42	57	50	65	59	-	-	-	-	-
16	61	56	76	68	87	79	-	-	-	-	-
25	80	73	101	89	114	104	126	112	146	130	110
35	99	89	125	110	141	129	156	141	181	162	137
50	119	108	151	134	182	167	191	172	219	197	167
70	151	136	192	171	234	214	246	223	281	254	216
95	182	164	232	207	284	261	300	273	341	311	264
120	210	188	269	239	330	303	349	318	396	362	308
150	240	216	300	262	381	349	404	369	456	419	356
185	273	245	341	296	436	400	463	424	521	480	409
240	320	286	400	346	515	472	549	504	615	569	485
300	367	328	458	394	594	545	635	584	709	659	561
400	-	-	546	467	694	634	732	679	852	795	656
500	-	-	626	533	792	723	835	778	982	920	749
630	-	-	720	611	904	826	953	892	1138	1070	855
800	-	-	-	-	1030	943	1086	1020	1265	1188	971
1000	-	-	-	-	1154	1058	1216	1149	1420	1337	1079

Voltage Drop (Per Amp per Meter)

Conductor Cross-sectional Area	2 cables dc	2 cables, 1-phase ac									3 or 4 cables, 3-phase ac											
		Reference Method 3 & 4 (enclosed in conduit etc, in or on a wall)			Reference Method 1 & 11 (clipped direct or on trays, touching)			Reference Method 12 (space*)			Reference Method 3 & 4 (enclosed in conduit etc, in or on a wall)			Reference Method 1, 11 & 12 (in trefoil)			Reference Method 1, 11 (flat touching)			Reference Method 12 (flat space*)		
		1 mm ²	2 mV/A/m	3 mV/A/m	4 mV/A/m	5 mV/A/m	6 mV/A/m	7 mV/A/m	8 mV/A/m	9 mV/A/m	6 mV/A/m	7 mV/A/m	8 mV/A/m	9 mV/A/m	6 mV/A/m	7 mV/A/m	8 mV/A/m	9 mV/A/m	6 mV/A/m	7 mV/A/m	8 mV/A/m	9 mV/A/m
1	44	44	44	44	44	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	
1.5	29	29	29	29	29	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
2.5	18	18	18	18	18	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
4	11	11	11	11	11	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	
6	7.3	7.3	7.3	7.3	7.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	
10	4.4	4.4	4.4	4.4	4.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	
16	2.8	2.8	2.8	2.8	2.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
		r	x	z	r	x	z	r	x	z	r	x	z	r	x	z	r	x	z	r	x	z
25	1.75	1.80	0.33	1.80	1.75	0.20	1.75	1.75	0.29	1.80	1.50	0.29	1.55	1.50	0.175	1.50	1.50	0.25	1.55	1.50	0.32	1.55
35	1.25	1.30	0.31	1.30	1.25	0.195	1.25	1.25	0.28	1.30	1.10	0.27	1.10	1.10	0.170	1.10	1.10	0.24	1.10	1.10	0.32	1.15
50	0.93	0.95	0.30	1.00	0.93	0.190	0.95	0.93	0.28	0.97	0.81	0.26	0.85	0.80	0.165	0.82	0.80	0.24	0.84	0.80	0.32	0.86
70	0.63	0.65	0.29	0.72	0.63	0.185	0.66	0.63	0.27	0.69	0.56	0.25	0.61	0.55	0.160	0.57	0.55	0.24	0.60	0.55	0.31	0.63
95	0.46	0.49	0.28	0.56	0.47	0.180	0.50	0.47	0.27	0.54	0.42	0.24	0.48	0.41	0.155	0.43	0.41	0.23	0.47	0.40	0.31	0.51
120	0.36	0.39	0.27	0.47	0.37	0.175	0.41	0.37	0.26	0.45	0.33	0.23	0.41	0.32	0.150	0.36	0.32	0.23	0.40	0.32	0.30	0.44
150	0.29	0.31	0.27	0.41	0.30	0.175	0.34	0.29	0.26	0.39	0.27	0.23	0.36	0.26	0.150	0.30	0.26	0.23	0.34	0.26	0.30	0.40
185	0.23	0.25	0.27	0.37	0.24	0.170	0.29	0.24	0.26	0.35	0.22	0.23	0.32	0.21	0.145	0.26	0.21	0.22	0.31	0.21	0.30	0.36
240	0.180	0.195	0.26	0.33	0.185	0.165	0.25	0.185	0.25	0.31	0.17	0.23	0.29	0.160	0.145	0.22	0.160	0.22	0.27	0.160	0.29	0.34
300	0.145	0.160	0.26	0.31	0.150	0.165	0.22	0.150	0.25	0.29	0.14	0.23	0.27	0.130	0.140	0.190	0.130	0.22	0.25	0.130	0.29	0.32
400	0.105	0.130	0.26	0.29	0.120	0.160	0.20	0.115	0.25	0.27	0.12	0.22	0.25	0.105	0.140	0.175	0.105	0.21	0.24	0.100	0.29	0.31
500	0.086	0.110	0.26	0.28	0.098	0.155	0.185	0.093	0.24	0.26	0.10	0.22	0.25	0.086	0.135	0.160	0.086	0.21	0.23	0.081	0.29	0.30
630	0.068	0.094	0.25	0.27	0.081	0.155	0.175	0.076	0.24	0.25	0.08	0.22	0.24	0.072	0.135	0.150	0.072	0.21	0.22	0.066	0.28	0.29
800	0.053	-	-	-	0.068	0.150	0.165	0.061	0.24	0.25	-	-	-	0.060	0.130	0.145	0.060	0.21	0.22	0.053	0.28	0.29
1000	0.042	-	-	-	0.059	0.150	0.160	0.050	0.24	0.24	-	-	-	0.052	0.130	0.140	0.052	0.20	0.21	0.044	0.28	0.28

Note: Rating factors for ambient temperature other than 30 degC please refer to Technical Table 3-11

Group Rating Factor please refer to Technical Table 3-12

* With or without protective conductor

r = conductor resistance at operating temperature

z = impedance, x = reactance

Disclaimer: Reference to BS 7671 Standard. Material provided is for reference only, please refer to the latest version of the BS 7671 Standard.

For current information see www.lappcableasia.lappgroup.com

T32 Selection Table

T32: Current Rating and Voltage Drop

Table 32-5: Current Rating and Voltage Drop

Multicore cables having PVC Insulation, Unarmoured (Copper Conductor) 600/1000 V

Cable Categories: ÖLFLEX® POWER LV (N)YY (Multicore)

Current Rating Capacities (Amp)

Conductor Cross-sectional Area	Reference Method 4 (enclosed in an insulated wall etc)		Reference Method 3 (enclosed in conduit on a wall or ceiling, or in trunking)		Reference Method 1 (clipped direct)		Reference Method 11 (on a perforated cable tray) or Reference Method 13 (free air)	
	2-core cables* 1-phase ac or dc	3 or 4-core* cables 3-phase ac	2-core cables* 1-phase ac or dc	3 or 4-core* cables 3-phase ac	2-core cables* 1-phase ac or dc	3 or 4-core* cables 3-phase ac	2-core cables* 1-phase ac or dc	3 or 4-core* cables 3-phase ac
1 mm ²	2 A	3 A	4 A	5 A	6 A	7 A	8 A	9 A
1	11	10	13	11.5	15	13.5	17	14.5
1.5	14	13	16.5	15	19.5	17.5	22	18.5
2.5	18.5	17.5	23	20	27	24	30	25
4	25	23	30	27	36	32	40	34
6	32	29	38	34	46	41	51	43
10	43	39	52	46	63	57	70	60
16	57	52	69	62	85	76	94	80
25	75	68	90	80	112	96	119	101
35	92	83	111	99	138	119	148	126
50	110	99	133	118	168	144	180	153
70	139	125	168	149	213	184	232	196
95	167	150	201	179	258	223	282	238
120	192	172	232	206	299	259	328	276
150	219	196	258	225	344	299	379	319
185	248	223	294	255	392	341	434	364
240	291	261	344	297	461	403	514	430
300	334	298	394	339	530	464	593	497
400	-	-	470	402	634	557	715	597

Voltage Drop (Per Amp per Meter)

Conductor Cross-sectional Area	2-core cables, ac	2-core cables 1-phase, ac			3 or 4-core cables 3-phase, ac		
1 mm ²	2 mV/A/m	3 mV/A/m			4 mV/A/m		
1	44	44			38		
1.5	29	29			25		
2.5	18	18			15		
4	11	11			9.5		
6	7.3	7.3			6.4		
10	4.4	4.4			3.8		
16	2.8	2.8			2.4		
		r	x	z	r	x	z
25	1.75	1.75	0.170	1.75	1.50	0.145	1.50
35	1.25	1.25	0.165	1.25	1.10	0.145	1.10
50	0.93	0.93	0.165	0.94	0.80	0.140	0.81
70	0.63	0.63	0.160	0.65	0.55	0.140	0.57
95	0.46	0.47	0.155	0.50	0.41	0.135	0.43
120	0.36	0.38	0.155	0.41	0.33	0.135	0.35
150	0.29	0.30	0.155	0.34	0.26	0.130	0.29
185	0.23	0.25	0.150	0.29	0.21	0.130	0.25
240	0.180	0.190	0.150	0.24	0.165	0.130	0.21
300	0.145	0.155	0.145	0.21	0.135	0.130	0.185
400	0.105	0.115	0.145	0.185	0.100	0.125	0.160

Note: Rating factors for ambient temperature other than 30 degC please refer to Technical Table 3-11

Group Rating Factor please refer to Technical Table 3-12

* With or without protective conductor

r = conductor resistance at operating temperature

z = impedance, x = reactance

Disclaimer: Reference to BS 7671 Standard. Material provided is for reference only, please refer to the latest version of the BS 7671 Standard.

Table 32-6: Current Rating and Voltage Drop

Multicore cables having PVC Insulation, Armoured (Copper Conductor) 600/1000 V
Cable Categories: ÖLFLEX® POWER LV (N)YYRY

Current Rating Capacities (Amp)

Conductor Cross-sectional Area	Reference Method 1 (clipped direct)		Reference Method 11 (on a perforated horizontal cable tray) or Reference Method 13 (free air)		Laid direct in ground		In single way ducts	
	2-core cables 1-phase ac or dc	3 or 4-core cables 3-phase ac	2-core cables 1-phase ac or dc	3 or 4-core cables 3-phase ac	2-core	3 or 4-core	2-core	3 or 4-core
1 mm ²	2 A	3 A	4 A	5 A	6 A	7 A	8 A	9 A
1.5	21	18	22	19	32	27	26	22
2.5	28	25	31	26	41	35	34	29
4	38	33	41	35	55	47	45	38
6	49	42	53	45	69	59	57	48
10	67	58	72	62	92	78	76	64
16	89	77	97	83	119	101	98	83
25	118	102	128	110	158	132	129	107
35	145	125	157	135	190	159	154	126
50	175	151	190	163	225	188	183	153
70	222	192	241	207	277	233	225	190
95	269	231	291	251	332	279	271	228
120	310	267	336	290	377	317	309	260
150	356	306	386	332	422	355	346	292
185	405	348	439	378	478	401	393	331
240	476	409	516	445	551	462	455	382
300	547	469	592	510	616	517	510	428
400	621	540	683	590	693	580	574	490

Voltage Drop (Per Amp per Meter)

Conductor Cross-sectional Area	2-core cables, ac	2-core cables 1-phase, ac			3 or 4-core cables 3-phase, ac			Laid direct in ground		In single way ducts	
		2-core cables 1-phase, ac			3 or 4-core cables 3-phase, ac			2-core	3 or 4 core	2-core	3 or 4 core
1 mm ²	2 mV/A/m	3 mV/A/m			4 mV/A/m			5 mV/A/m	6 mV/A/m	7 mV/A/m	8 mV/A/m
1.5	29	29			25			29	25	29	25
2.5	18	18			15			17	15	17	15
4	11	11			9.5			11	9.5	11	9.5
6	7.3	7.3			6.4			7.4	6.4	7.4	6.4
10	4.4	4.4			3.8			4.4	3.8	4.4	3.8
16	2.8	2.8			2.4			2.8	2.4	2.8	2.4
		r	x	z	r	x	z				
25	1.75	1.75	0.17	1.75	1.5	0.145	1.5	1.7	1.5	1.7	1.5
35	1.25	1.25	0.165	1.25	1.1	0.145	1.1	1.3	1.1	1.3	1.1
50	0.93	0.93	0.165	0.94	0.8	0.14	0.81	0.94	0.82	0.94	0.82
70	0.63	0.63	0.16	0.65	0.55	0.14	0.57	0.66	0.57	0.66	0.57
95	0.46	0.47	0.155	0.5	0.41	0.135	0.43	0.49	0.42	0.49	0.42
120	0.36	0.38	0.155	0.41	0.33	0.135	0.35	0.4	0.35	0.4	0.35
150	0.29	0.3	0.155	0.34	0.26	0.13	0.29	0.34	0.29	0.34	0.29
185	0.23	0.25	0.15	0.29	0.21	0.13	0.25	0.29	0.25	0.29	0.25
240	0.18	0.19	0.15	0.24	0.165	0.13	0.21	0.24	0.21	0.24	0.21
300	0.145	0.155	0.145	0.21	0.135	0.13	0.185	0.21	0.18	0.21	0.18
400	0.105	0.115	0.145	0.185	0.1	0.125	0.16	0.19	0.17	0.19	0.17

Note: Rating factors for ambient temperature other than 30 degC please refer to Technical Table 3-11
Rating factors for ground temperature other than 15 degC please refer to Technical Table 3-11
Group Rating Factor please refer to Technical Table 3-12 and 3-13
r = conductor resistance at operating temperature
z = impedance, x = reactance

Disclaimer: Reference to BS 7671 Standard. Material provided is for reference only, please refer to the latest version of the BS 7671 Standard.

T32 Selection Table

T32: Current Rating and Voltage Drop

Table 32-7: Current Rating and Voltage Drop

Single-core cables having XLPE or LSHF Insulation, Unarmoured, With or Without Sheath (Copper Conductor) 450/750 V or 600/1000 V

Cable Categories: ÖLFLEX® POWER LV (N)2XY (Single-core), FR-6387 SC, FLEXI H SC

Current Rating Capacities (Amp)

Conductor Cross-sectional Area	Reference Method 4 (enclosed in conduit in thermally insulating wall etc)		Reference Method 3 (enclosed in conduit on a wall or in trunking etc)		Reference Method 1 (clipped direct)		Reference Method 11 (on a perforated cable tray, horizontal or vertical)		Reference Method 12 (free air)
	2 cables 1-phase ac or dc	3 or 4 cables 3-phase ac	2 cables 1-phase ac or dc	3 or 4 cables 3-phase ac	2 cables 1-phase ac or dc flat & touching	3 or 4 cables 3-phase ac flat & touching or trefoil	2 cables 1-phase ac or dc flat & touching	3 or 4 cables 3-phase ac flat & touching trefoil	3 cables trefoil 3-phase ac
1 mm ²	2 A	3 A	4 A	5 A	6 A	7 A	8 A	9 A	10 A
1	14	13	17	15	19	17.5	-	-	-
1.5	18	17	22	19	25	23	-	-	-
2.5	24	23	30	26	34	31	-	-	-
4	33	30	40	35	46	41	-	-	-
6	43	39	51	45	59	54	-	-	-
10	58	53	71	63	81	74	-	-	-
16	76	70	95	85	109	99	-	-	-
25	100	91	126	111	143	130	158	140	138
35	124	111	156	138	176	161	195	176	171
50	149	135	189	168	228	209	293	215	209
70	189	170	240	214	293	268	308	279	270
95	228	205	290	259	355	326	375	341	330
120	263	235	336	299	413	379	436	398	385
150	300	270	375	328	476	436	505	461	445
185	341	306	426	370	545	500	579	530	511
240	400	358	500	433	644	590	686	630	606
300	459	410	573	493	743	681	794	730	701
400	-	-	683	584	868	793	915	849	820
500	-	-	783	666	990	904	1044	973	936
630	-	-	900	764	1130	1033	1191	1115	1069
800	-	-	-	-	1288	1179	1358	1275	1214
1000	-	-	-	-	1443	1323	1520	1436	1349

Voltage Drop (Per Amp per Meter)

Conductor Cross-sectional Area	2 cables dc	2 cables, 1-phase ac						3 or 4 cables, 3-phase ac								
		Reference Method 3 & 4 (enclosed in conduit etc, in or on a wall)			Reference Method 1 & 11 (clipped direct or on trays touching)			Reference Method 3 & 4 (enclosed in conduit etc, in or on a wall)			Reference Method 1 & 11 & 12 (in trefoil)			Reference Method 1 & 11 (flat and touching)		
1 mm ²	2 mV/A/m	3 mV/A/m			4 mV/A/m			5 mV/A/m			6 mV/A/m			7 mV/A/m		
1	46	46			46			40			40			40		
1.5	31	31			31			27			27			27		
2.5	19	19			19			16			16			16		
4	12	12			12			10			10			10		
6	7.9	7.9			7.9			6.8			6.8			6.8		
10	4.7	4.7			4.7			4.0			4.0			4.0		
16	2.9	2.9			2.9			2.5			2.5			2.5		
		r	x	z	r	x	z	r	x	z	r	x	z	r	x	z
25	1.85	1.85	0.31	1.90	1.85	0.19	1.85	1.60	0.27	1.65	1.60	0.165	1.60	1.60	0.19	1.60
35	1.35	1.35	0.29	1.35	1.35	0.18	1.35	1.15	0.25	1.15	1.15	0.155	1.15	1.15	0.18	1.15
50	0.99	1.00	0.29	1.05	0.99	0.18	1.00	0.87	0.25	0.90	0.86	0.155	0.87	0.86	0.18	0.87
70	0.68	0.70	0.28	0.75	0.68	0.175	0.71	0.60	0.24	0.65	0.59	0.150	0.61	0.59	0.175	0.62
95	0.49	0.51	0.27	0.58	0.49	0.170	0.52	0.44	0.23	0.50	0.43	0.145	0.45	0.43	0.170	0.46
120	0.39	0.41	0.26	0.48	0.39	0.165	0.43	0.35	0.23	0.42	0.34	0.140	0.37	0.34	0.165	0.38
150	0.32	0.33	0.26	0.43	0.32	0.165	0.36	0.29	0.23	0.37	0.28	0.140	0.31	0.28	0.165	0.32
185	0.25	0.27	0.26	0.37	0.26	0.165	0.30	0.23	0.23	0.32	0.22	0.140	0.26	0.22	0.165	0.28
240	0.19	0.21	0.26	0.33	0.20	0.160	0.25	0.185	0.22	0.29	0.17	0.140	0.22	0.17	0.165	0.24
300	0.155	0.175	0.25	0.31	0.16	0.160	0.22	0.15	0.22	0.27	0.14	0.140	0.195	0.135	0.160	0.21
400	0.12	0.14	0.25	0.29	0.13	0.155	0.20	0.125	0.22	0.25	0.11	0.135	0.175	0.110	0.160	0.195
500	0.093	0.12	0.25	0.28	0.105	0.155	0.185	0.100	0.22	0.24	0.09	0.135	0.160	0.088	0.160	0.180
630	0.072	0.10	0.25	0.27	0.086	0.155	0.175	0.088	0.21	0.23	0.074	0.135	0.150	0.071	0.160	0.170
800	0.056	-	-	-	0.072	0.150	0.170	-	-	-	0.062	0.130	0.145	0.059	0.155	0.165
1000	0.045	-	-	-	0.063	0.150	0.165	-	-	-	0.055	0.130	0.140	0.050	0.155	0.165

Note: Rating factors for ambient temperature other than 30 degC please refer to Technical Table 3-11

Group Rating Factor please refer to Technical Table 3-12

r = conductor resistance at operating temperature

z = impedance, x = reactance

Disclaimer: Reference to BS 7671 Standard. Material provided is for reference only, please refer to the latest version of the BS 7671 Standard.

Table 32-8: Current Rating and Voltage Drop

Multicore cables having XLPE or LSHF Insulation, Unarmoured (Copper Conductor) 300/500 V or 600/1000 V

Cable Categories: ÖLFLEX® POWER LV (N)2XY (Multicore), FR-6387 MC, FR-6387 OS, FR-6387 MC CONTROL

Current Rating Capacities (Amp)

Conductor Cross-sectional Area	Reference Method 4 (enclosed in conduit and in insulating wall etc)		Reference Method 3 (enclosed in conduit on a wall or ceiling, or in trunking etc)		Reference Method 1 (clipped direct)		Reference Method 11 (on a perforated cable tray) or Reference Method 13 (free air)	
	2-core cables 1-phase ac or dc	3 or 4-core cables 3-phase ac	2-core cables 1-phase ac or dc	3 or 4-core cables 3-phase ac	2-core cables 1-phase ac or dc	3 or 4-core cables 3-phase ac	2-core cables 1-phase ac or dc	3 or 4-core cables 3-phase ac
1 mm ²	2 A	3 A	4 A	5 A	6 A	7 A	8 A	9 A
1.5	18.5	16.5	22	19.5	24	22	26	23
2.5	25	22	30	26	33	30	36	32
4	33	30	40	35	45	40	49	42
6	42	38	51	44	58	52	63	54
10	57	51	69	60	80	71	86	75
16	76	68	91	80	107	96	115	100
25	99	89	119	105	138	119	149	127
35	121	109	146	128	171	147	185	158
50	145	130	175	154	209	179	225	192
70	183	164	221	194	269	229	289	246
95	220	197	265	233	328	278	352	298
120	253	227	305	268	382	322	410	346
150	290	259	334	300	441	371	473	399
185	329	295	384	340	506	424	542	456
240	386	346	459	398	599	500	641	538
300	442	396	532	455	693	576	741	621
400			625	536	803	667	865	741

Voltage Drop (Per Amp per Meter)

Conductor Cross-sectional Area	2-core cables, dc	2-core cables 1-phase, ac			3 or 4-core cables 3-phase, ac		
1 (mm ²)	2 (mV/A/m)	3 (mV/A/m)			4 (mV/A/m)		
1.5	31	31			27		
2.5	19	19			16		
4	12	12			10		
6	7.9	7.9			6.8		
10	4.7	4.7			4.0		
16	2.9	2.9			2.5		
		r	x	z	r	x	z
25	1.85	1.85	0.16	1.9	1.6	0.14	1.65
35	1.35	1.35	0.155	1.35	1.15	0.135	1.15
50	0.98	0.99	0.155	1.00	0.86	0.135	0.87
70	0.67	0.67	0.150	0.69	0.59	0.130	0.60
95	0.49	0.50	0.150	0.52	0.43	0.130	0.45
120	0.39	0.40	0.145	0.42	0.34	0.130	0.37
150	0.31	0.32	0.145	0.35	0.28	0.125	0.30
185	0.25	0.26	0.145	0.29	0.22	0.125	0.26
240	0.195	0.20	0.140	0.24	0.175	0.125	0.21
300	0.155	0.16	0.140	0.21	0.140	0.120	0.185
400	0.120	0.13	0.140	0.19	0.115	0.120	0.165

Note: Rating factors for ambient temperature other than 30 degC please refer to Technical Table 3-11

Group Rating Factor please refer to Technical Table 3-12

r = conductor resistance at operating temperature

z = impedance, x = reactance

Disclaimer: Reference to BS 7671 Standard. Material provided is for reference only, please refer to the latest version of the BS 7671 Standard.

T32 Selection Table

T32: Current Rating and Voltage Drop

Table 32-9: Current Rating and Voltage Drop

Single-core cables having XLPE or LSHF Insulation, Armoured (Copper Conductor) 600/1000 V

Cable Categories: ÖLFLEX® POWER LV (N)2XYRY (Single-core)

Current Rating Capacities (Amp)

Conductor Cross-sectional Area	Reference Method 1 (clipped direct)		Reference Method 11 (on a perforated cable tray)		Reference Method 12 (free air)	In single way ducts		Laid direct in ground	
	2 cables 1-phase ac or dc flat & touching	3 or 4 cables 3-phase ac flat & touching	2 cables 1-phase ac or dc flat & touching	3 or 4 cables 3-phase ac flat & touching	3 or 4 cables 3-phase, ac trefoil touching	2 cables 1-phase ac or dc ducts touching	3 or 4 cables 3-phase ac, trefoil ducts touching	2 cables 1-phase ac or dc touching	3 or 4 cables 3-phase ac, trefoil touching
1 mm ²	2 A	3 A	4 A	5 A	6 A	7 A	8 A	9 A	10 A
50	237	220	253	232	222	255	235	275	235
70	303	277	322	293	285	310	280	340	290
95	367	333	389	352	346	365	330	405	345
120	425	383	449	405	402	410	370	460	390
150	488	437	516	462	463	445	405	510	435
185	557	496	587	524	529	485	440	580	490
240	656	579	689	612	625	550	500	670	560
300	755	662	792	700	720	610	550	750	630
400	853	717	899	767	815	640	580	830	700
500	962	791	1016	851	918	690	620	910	770
630	1082	861	1146	935	1027	750	670	1000	840
800	1170	904	1246	987	1119	828	735	1117	931
1000	1261	961	1345	1055	1214	919	811	1254	1038

Voltage Drop (Per Amp per Meter)

Conductor Cross-sectional Area	2 cables, dc	2 cables, 1-phase ac			3 or 4 cables, 3-phase ac						2 cables, 1-phase ac		3 or 4 cables, 3-phase ac, touching	
		Reference Methods 1 & 11 (touching)			Reference Methods 1, 11 or 12 (in trefoil touching)			Reference Methods 1 & 11 (flat & touching)			In ducts	In ground	In ducts	In ground
		3 mV/A/m			4 mV/A/m			5 mV/A/m			6 mV/A/m	7 mV/A/m	8 mV/A/m	9 mV/A/m
1 mm ²	2 mV/A/m	r	x	z	r	x	z	r	x	z				
50	0.98	0.99	0.21	1	0.86	0.18	0.87	0.84	0.25	0.88	1.10	0.99	0.93	0.86
70	0.67	0.68	0.20	0.71	0.59	0.17	0.62	0.60	0.25	0.65	0.80	0.70	0.70	0.61
95	0.49	0.51	0.195	0.55	0.44	0.17	0.47	0.46	0.24	0.52	0.65	0.53	0.56	0.46
120	0.39	0.41	0.190	0.45	0.35	0.165	0.39	0.38	0.24	0.44	0.55	0.43	0.48	0.37
150	0.31	0.33	0.185	0.38	0.29	0.160	0.33	0.31	0.23	0.39	0.50	0.37	0.43	0.32
185	0.25	0.27	0.185	0.33	0.23	0.160	0.28	0.26	0.23	0.34	0.45	0.31	0.39	0.27
240	0.195	0.21	0.180	0.28	0.18	0.155	0.24	0.21	0.22	0.30	0.40	0.26	0.35	0.23
300	0.155	0.17	0.175	0.25	0.145	0.150	0.21	0.17	0.22	0.28	0.37	0.24	0.32	0.21
400	0.115	0.145	0.170	0.22	0.125	0.150	0.195	0.160	0.21	0.27	0.35	0.21	0.30	0.19
500	0.093	0.125	0.170	0.21	0.105	0.145	0.180	0.145	0.20	0.25	0.33	0.20	0.28	0.18
630	0.073	0.105	0.165	0.195	0.092	0.145	0.170	0.135	0.195	0.24	0.30	0.19	0.26	0.17
800	0.056	0.09	0.160	0.190	0.086	0.140	0.165	0.130	0.180	0.23	0.28	0.18	0.24	0.16
1000	0.045	0.092	0.155	0.180	0.080	0.135	0.155	0.125	0.170	0.21	0.26	0.17	0.22	0.15

Note: Rating factors for ambient temperature other than 30 degC please refer to Technical Table 3-11

Rating factors for ground temperature other than 15 degC please refer to Technical Table 3-11

Group Rating Factor please refer to Technical Table 3-12 and 3-13

r = conductor resistance at operating temperature

z = impedance, x = reactance

Disclaimer: Reference to BS 7671 Standard. Material provided is for reference only, please refer to the latest version of the BS 7671 Standard.

Table 32-10: Current Rating and Voltage Drop

Multicore cables having XLPE or LSHF Insulation, Armoured (Copper Conductor) 600/1000 V
Cable Categories: ÖLFLEX® POWER LV (N)2XYRY (Multicore)

Current Rating Capacities (Amp)

Conductor Cross-sectional Area	Reference Method 1 (clipped direct)		Reference Method 11 (on a perforated cable tray) or Reference Method 13 (free air)		In single way ducts		Laid direct in ground	
	2-core cables 1-phase ac or dc	3 or 4-core cables 3-phase ac	2-core cables 1-phase ac or dc	3 or 4-core cables 3-phase ac	2-core cables 1-phase ac or dc	3 or 4-core cables 3-phase ac	2-core cables 1-phase ac or dc	3 or 4-core cables 3-phase ac
1 mm²	2 A	3 A	4 A	5 A	6 A	7 A	8 A	9 A
1.5	27	23	29	25		23		28
2.5	36	31	39	33		30		36
4	49	42	52	44		40		48
6	62	53	66	56		50		60
10	85	73	90	78		65		80
16	110	94	115	99	115	94	140	115
25	146	124	152	131	145	125	180	150
35	180	154	188	162	175	150	215	180
50	219	187	228	197	210	175	255	215
70	279	238	291	251	260	215	315	265
95	338	289	354	304	310	260	380	315
120	392	335	410	353	355	300	430	360
150	451	386	472	406	400	335	480	405
185	515	441	539	463	455	380	540	460
240	607	520	636	546	520	440	630	530
300	698	599	732	628	590	495	700	590
400	787	673	847	728	660	560	790	670

Voltage Drop (Per Amp per Meter)

Conductor Cross-sectional Area	2-core cables dc	2-core cables 1-phase ac			3 or 4-core cables 3-phase ac			2-core cables, 1-phase ac		3 or 4-core cables 3-phase ac	
								In ducts	In ground	In ducts	In ground
1 mm²	2 mV/A/m	3 mV/A/m			4 mV/A/m			5 mV/A/m	6 mV/A/m	7 mV/A/m	8 mV/A/m
1.5	31	31			27			31	31	25	25
2.5	19	19			16			19	19	15	15
4	12	12			10			12	12	9.7	9.7
6	7.9	7.9			6.8			7.9	7.9	6.5	6.5
10	4.7	4.7			4.0			4.7	4.7	3.9	3.9
16	2.9	2.9			2.5			2.9	2.9	2.6	2.6
		r	x	z	r	x	z				
25	1.85	1.85	0.16	1.9	1.6	0.14	1.65	1.9	1.9	1.6	1.6
35	1.35	1.35	0.155	1.35	1.15	0.135	1.15	1.35	1.35	1.2	1.2
50	0.98	0.99	0.155	1.00	0.86	0.135	0.87	1.00	1.00	0.87	0.87
70	0.67	0.67	0.150	0.69	0.59	0.130	0.60	0.69	0.69	0.61	0.61
95	0.49	0.50	0.150	0.52	0.43	0.130	0.45	0.52	0.52	0.45	0.45
120	0.39	0.40	0.145	0.42	0.34	0.130	0.37	0.42	0.42	0.36	0.36
150	0.31	0.32	0.145	0.35	0.28	0.125	0.30	0.35	0.35	0.30	0.30
185	0.25	0.26	0.145	0.29	0.22	0.125	0.26	0.29	0.29	0.25	0.25
240	0.195	0.20	0.140	0.24	0.175	0.125	0.21	0.24	0.24	0.21	0.21
300	0.155	0.16	0.140	0.21	0.140	0.120	0.185	0.21	0.21	0.19	0.19
400	0.120	0.13	0.140	0.19	0.115	0.120	0.165	0.19	0.19	0.18	0.18

Note: Rating factors for ambient temperature other than 30 degC please refer to Technical Table 3-11

Rating factors for ground temperature other than 15 degC please refer to Technical Table 3-11

Group Rating Factor please refer to Technical Table 3-12 and 3-13

r = conductor resistance at operating temperature

z = impedance, x = reactance

Disclaimer: Reference to BS 7671 Standard. Material provided is for reference only, please refer to the latest version of the BS 7671 Standard.

Table 32-11: Correction Factors for Other Temperature

Rating Factors for other temperature conditions, PVC insulated															
Ambient Temperature (°C)	10	15	20	25	30	35	40	45	50	55	60	65	70	-	-
Rating Factors in Air				1.03	1.00	0.94	0.87	0.79	0.71	0.61	0.50	0.35	-		
Rating Factors in Ground	1.04	1.00	0.95	0.90	0.85	0.80	0.73	0.67	0.60						

Rating Factors for other temperature conditions, XLPE / LSHF insulated															
Ambient Temperature (°C)	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
Rating Factors in Air			1.02	1.00	0.96	0.91	0.87	0.82	0.76	0.71	0.65	0.58	0.50	0.41	0.29
Rating Factors in Ground	1.00	0.97	0.93	0.89	0.86	0.82	0.77	0.73							

Table 32-12: Correction Factors for Group Installation

Correction Factors for groups of more than one circuit of single core cables, or more than one multicore cables																	
Reference Methods of Installation		Correction Factor (Cg)															
		Number of Circuits or Multicore Cables															
		2	3	4	5	6	7	8	9	10	12	14	16	18	20		
Enclosed (Method 3 or 4) or bunched and clipped direct to a non-metallic surface (Method 1)		0.80	0.70	0.65	0.60	0.57	0.54	0.52	0.50	0.48	0.45	0.43	0.41	0.39	0.38		
Single layer clipped to a non-metallic surface (Method 1)	Touching	0.85	0.79	0.75	0.73	0.72	0.72	0.71	0.70	-	-	-	-	-	-		
	Spaced*	0.94	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90		
Single layer multicore on a perforated metal cable tray, vertical or horizontal (Method 11)	Touching	0.86	0.81	0.77	0.75	0.74	0.73	0.73	0.72	0.71	0.70	-	-	-	-		
	Spaced*	0.91	0.89	0.88	0.87	0.87	-	-	-	-	-	-	-	-	-		
Single layer single core on a perforated metal cable tray, touching (Method 11)	Horizontal	0.90	0.85	-	-	-	-	-	-	-	-	-	-	-	-		
	Vertical	0.85	-	-	-	-	-	-	-	-	-	-	-	-	-		
Single layer multicore touching on ladder supports (Method 13)		0.86	0.82	0.80	0.79	0.78	0.78	0.78	0.77	-	-	-	-	-	-		

- Notes:
- The factors in the table are applicable to groups of cables all of one size. The value of current derived from application of the appropriate factors is the maximum current to be carried by any of the cables in the group
 - If, due to known operating conditions, a cable is expected to carry not more than 30% of its grouped rating, it may be ignored for the purpose of obtaining the rating factor for the rest of the group
For example, a group of N loaded cables would normally require a group reduction factor of Cg applied to the tabulated It. However, if M cables in the group carry loads which are not greater than 0.3 Cg x It amperes, the other cables can be sized by using the group rating factor corresponding to (N-M) cables
 - When cables having differing conductor operating temperatures are grouped together, the current rating shall be based on the lowest operating temperature of any cable in the group
 - * 'Spaced' means a clearance between adjacent surfaces of at least one cable diameter (De). Where the horizontal clearance between adjacent cables exceeds 2 x De, no correction factor need be applied

Disclaimer: Reference to BS 7671 Standard. Material provided is for reference only, please refer to the latest version of the BS 7671 Standard.

Table 32-13: Correction Factors for Group Installation

Group Rating Factors for Cables Installation													
Group Rating Factors			Number of Circuits										
			2	3	4	5	6	7	8	9	10	11	12
1	For circuits of 2 single-core cables laid flat touching horizontal formation, laid direct in ground		0.79	0.68	0.62	0.57	0.54	0.52	0.50	0.48	0.47	0.46	0.45
2	For circuits of 3 single-core cables in trefoil touching, laid direct in ground		0.78	0.66	0.61	0.56	0.53	0.50	0.49	0.47	0.46	0.44	0.43
			Number of Cables in a Group										
			2	3	4	5	6	7	8	9	10	11	12
3	For twin or multicore cables in horizontal formation, laid direct in ground	Spaced 0.15 m	0.87	0.78	0.74	0.70	0.68	0.66	0.64	0.63	0.62	0.61	0.60
		Spaced 0.30 m	0.91	0.84	0.81	0.78	0.77	0.75	0.75	0.74	0.73	0.73	0.72
			Number of Ducts in a Group										
			2	3	4	5	6	7	8	9	10	11	12
4	For twin or multicore cables in single-way ducts horizontal formation spaced 0.30 m apart		0.93	0.88	0.85	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.78

Table 32-14: Correction Factors for Enclosed Trenches

Correction Factors for cables in enclosed trenches										
Conductor Cross-sectional Area mm ²	Installation Method 18				Installation Method 19				Installation Method 20	
	2 1-core cables, or 1 3- or 4-core cables	3 1-core cables, or 2 2-core cables	4 1-core cables, or 2 3- or 4-core cables	6 1-core cables, or 2 2-core cables, or 3 3- or 4-core cables	6 1-core cables, or 2 2-core cables, or 3 3- or 4-core cables	8 1-core cables, or 4 3- or 4-core cables	12 1-core cables, or 6 2-core cables, or 4 3- or 4-core cables	12 1-core cables, or 6 2-core cables, or 4 3- or 4-core cables	18 1-core cables, or 9 2-core cables, or 6 3- or 4-core cables	24 1-core cables, or 12 2-core cables, or 8 3- or 4-core cables
4	0.93	0.90	0.87	0.82	0.86	0.83	0.76	0.81	0.74	0.69
6	0.92	0.89	0.86	0.81	0.86	0.82	0.75	0.80	0.73	0.68
10	0.91	0.88	0.85	0.80	0.85	0.80	0.74	0.78	0.72	0.66
16	0.91	0.87	0.84	0.78	0.83	0.78	0.71	0.76	0.70	0.64
25	0.90	0.86	0.82	0.76	0.81	0.76	0.69	0.74	0.67	0.62
35	0.89	0.85	0.81	0.75	0.80	0.74	0.68	0.72	0.66	0.60
50	0.88	0.84	0.79	0.74	0.78	0.73	0.66	0.71	0.64	0.59
70	0.87	0.82	0.78	0.72	0.77	0.72	0.64	0.70	0.62	0.57
95	0.86	0.81	0.76	0.70	0.75	0.70	0.63	0.68	0.60	0.55
120	0.85	0.80	0.75	0.69	0.73	0.68	0.61	0.66	0.58	0.53
150	0.84	0.78	0.74	0.67	0.72	0.67	0.59	0.64	0.57	0.51
185	0.83	0.77	0.73	0.65	0.70	0.65	0.58	0.63	0.55	0.49
240	0.82	0.76	0.71	0.63	0.69	0.63	0.56	0.61	0.53	0.48
300	0.81	0.74	0.69	0.62	0.68	0.62	0.54	0.59	0.52	0.46
400	0.80	0.73	0.67	0.59	0.66	0.60	0.52	0.57	0.50	0.44
500	0.78	0.72	0.66	0.58	0.64	0.58	0.51	0.56	0.48	0.43
630	0.77	0.71	0.65	0.56	0.63	0.57	0.49	0.54	0.47	0.41

The correction factors tabulated above relate to the disposition of cables illustrated in items 18 to 20 of Technical Table T3-3 and are applicable to the current carrying capacities for Reference Methods 12 or 13 of Technical Table T3-2

When cables having different conductor operating temperatures are grouped together the current rating shall be based on the lowest operating temperature of any cable in the group

Disclaimer: Reference to BS 7671 Standard. Material provided is for reference only, please refer to the latest version of the BS 7671 Standard.

T33 Selection Table

T33: Current Rating and Voltage Drop

Table 33-1: Current Rating and Voltage Drop

2- and 3-single-core cables having PVC (V-90HT) Insulation, sheathed and unheathed, non-armoured (Copper Conductor) 600/1000 V
Cable Categories: V-90HT SC

Current Rating Capacities (Amp)

Conductor cross-sectional area	Unenclosed						Enclosed		Single Phase Voltage Drop
	Spaced		Spaced from surface		Touching		Conduit in air		
									
mm²	A	A	A	A	A	A	A	A	mV/A/m
1.0	16	16	16	14	13	13	13	11	54.0
1.5	21	20	21	17	16	16	16	14	34.6
2.5	30	29	29	25	23	23	22	20	18.9
4	40	38	39	33	31	31	30	26	11.7
6	51	49	49	42	40	40	38	34	7.86
10	69	67	67	58	54	54	53	47	4.67
16	92	89	89	77	72	72	71	62	2.94
25	125	120	120	105	97	97	97	87	1.87
35	155	150	145	125	120	120	115	100	1.36
50	185	180	175	155	145	145	140	125	1.01
70	240	230	225	195	185	185	175	155	0.710
95	295	285	275	245	230	230	210	185	0.527
120	345	335	320	285	265	265	250	220	0.430
150	395	385	365	330	310	310	280	250	0.364
185	460	445	425	385	360	355	325	285	0.310
240	550	540	510	455	430	425	385	340	0.262
300	640	620	580	530	495	490	-	390	0.233
400	740	730	680	610	580	570	-	455	0.211
500	870	850	780	710	670	660	-	530	0.196
630	1010	990	900	820	770	760	-	620	0.183

Table 33-2: Current Rating and Voltage Drop

2-core, 3- and 4-core cables having PVC (V-90) Insulation, sheathed, armoured or non-armoured (Copper Conductor) 450/750 and 600/1000 V
Cable Categories: AS ORANGE/ BLACK CIRCULAR

Current Rating Capacities (Amp)

Conductor cross-sectional area	Unenclosed				Enclosed		Underground ducts		Three Phase Voltage Drop
	Spaced		Touching		Conduit in air				
									
mm²	A	A	A	A	A	A	A	A	mV/A/m
1.0	15	13	14	12	11	10	17	15	46.8
1.5	19	16	18	15	14	13	22	19	30.0
2.5	27	23	26	22	20	18	31	26	16.4
4	37	31	34	29	26	24	40	34	10.2
6	46	40	44	37	34	31	51	43	6.80
10	64	54	60	51	47	42	68	57	4.05
16	85	72	80	68	63	56	88	74	2.55
25	115	97	105	91	88	79	115	96	1.61
35	140	120	130	110	105	92	140	115	1.17
50	170	145	160	135	125	110	165	140	0.868
70	215	185	200	170	155	140	205	175	0.609
95	265	230	250	215	190	165	250	210	0.450
120	305	265	290	245	225	195	290	240	0.366
150	350	305	330	280	255	225	325	270	0.307
185	405	350	375	325	295	260	370	310	0.259
240	475	410	445	385	345	305	430	370	0.216
300	550	470	510	440	400	-	495	415	0.190
400	630	540	590	500	465	-	560	480	0.171
500	720	620	670	570	620	-	650	540	0.158

Notes: 1. These ratings are based on ambient air temperature 40 degC, and ambient soil temperature 25 degC at 0.5 m depth.

2. Correction factors may apply subject to laying conditions please refer to Table 4-12, 4-13, and 4-14

Disclaimer: Reference to AS/ NZS 3008.1.1 Standard. Material provided is for reference only, please refer to the latest version of the AS/ NZS 3008.1.1 Standard.

Table 33-3: Current Rating and Voltage Drop

2- and 3-single-core cables having TPR Insulation, sheathed and unheathed, non-armoured (Copper Conductor) 600/1000 V
Cable Categories: ÖLFLEX® POWER TPR 90 SDI

Current Rating Capacities (Amp)

Conductor cross-sectional area	Unenclosed						Enclosed		Single Phase Voltage Drop
	Spaced		Spaced from surface		Touching		Conduit in air		
									
mm²	A	A	A	A	A	A	A	A	mV/A/m
1.0	20	19	20	16	16	16	16	14	54.0
1.5	26	25	25	21	20	20	20	18	34.6
2.5	36	35	36	30	28	28	28	25	18.9
4	48	46	47	40	37	37	37	33	11.7
6	61	59	60	50	47	47	47	42	7.86
10	84	81	82	69	65	65	65	58	4.67
16	110	110	110	92	86	86	86	78	2.94
25	150	145	145	125	115	115	115	110	1.87
35	185	180	175	155	145	145	145	125	1.36
50	230	220	215	190	175	175	175	155	1.01
70	290	280	275	240	225	225	220	190	0.710
95	360	350	340	300	280	280	260	230	0.527
120	420	410	395	350	325	325	310	270	0.430
150	485	470	450	405	375	375	350	310	0.364
185	570	550	520	470	435	435	400	355	0.310
240	680	660	620	560	520	520	475	420	0.262
300	790	770	720	650	610	600	-	485	0.233
400	920	900	840	760	710	700	-	560	0.211
500	1080	1050	970	870	820	810	-	650	0.196
630	1260	1230	1110	1010	950	940	-	760	0.183

Table 33-4: Current Rating and Voltage Drop

2-core, 3- and 4-core cables having TPR Insulation, sheathed, armoured or non-armoured (Copper Conductor) 600/1000 V
Cable Categories: ÖLFLEX® POWER TPR 90 MC

Current Rating Capacities (Amp)

Conductor cross-sectional area	Unenclosed				Enclosed		Underground ducts		Three Phase Voltage Drop
	Spaced		Touching		Conduit in air				
									
mm²	A	A	A	A	A	A	A	A	mV/A/m
1.0	18	16	17	14	13	12	20	17	46.8
1.5	24	20	22	19	17	16	25	21	30.0
2.5	34	28	31	26	24	22	35	30	16.4
4	45	38	42	35	33	29	46	38	10.2
6	57	48	53	45	42	38	57	48	6.80
10	78	66	73	62	59	53	77	64	4.05
16	105	88	97	83	79	70	100	83	2.55
25	140	120	130	110	110	98	130	110	1.61
35	175	145	160	135	130	115	160	135	1.17
50	210	180	195	170	160	140	190	160	0.868
70	270	230	250	215	200	175	235	200	0.609
95	330	285	310	265	240	210	285	240	0.450
120	385	330	360	305	285	250	325	275	0.366
150	440	375	410	350	325	280	375	310	0.307
185	510	435	475	405	375	325	425	355	0.259
240	600	520	560	480	445	385	500	420	0.216
300	690	590	640	550	520	-	570	475	0.190
400	800	680	750	630	600	-	650	540	0.171
500	920	780	850	720	770	-	750	620	0.158

Notes: 1. These ratings are based on ambient air temperature 40 degC, and ambient soil temperature 25 degC at 0.5 m depth.

2. Correction factors may apply subject to laying conditions please refer to Table 4-12, 4-13, and 4-14.

Disclaimer: Reference to AS/ NZS 3008.1.1 Standard. Material provided is for reference only, please refer to the latest version of the AS/ NZS 3008.1.1 Standard.

T33 Selection Table

T33: Current Rating and Voltage Drop

Table 33-5: Current Rating and Voltage Drop

Cables having TPR Insulation, sheathed and unsheathed, non-armoured (Copper Conductor) 600/1000 V - Flexing Application

Cable Categories: ÖLFLEX® POWER TPR 90 SDI / MC

Current Rating Capacities (Amp)

Conductor cross-sectional area	Single- and 2-core		3- and 4-core		Three Phase Voltage Drop
	Protected from sun	Exposed to sun	Protected from sun	Exposed to sun	
					
mm ²	A	A	A	A	mV/A/m
6	54	43	46	37	7.29
10	74	58	63	50	4.38
16	99	77	85	66	2.68
25	135	105	115	88	1.62
35	165	125	140	105	1.19
50	195	145	165	125	0.902
70	250	185	215	155	0.608
95	290	210	250	180	0.485
120	340	245	290	210	0.387
150	390	280	335	240	0.317
185	440	315	380	270	0.275
240 *	510	365	445	310	0.233
300 *	600	420	510	360	0.205
400 *	720	500	620	425	0.180
500 **	800	560	-	-	0.170

Disclaimer: Reference to AS/ NZS 3008.1.1 Standard. Material provided is for reference only, please refer to the latest version of the AS/ NZS 3008.1.1 Standard.

Table 33-6: Correction Factors for Other Temperature

Correction Factors for variations in ambient temperature for cables in air and buried direct in ground																		
Ambient Temperature (°C)		15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	100
Conductor Temperature (°C)	75	1.35	1.28	1.21	1.14	1.07	1.00	0.91	0.82	0.72	0.60	0.49	0.37	-	-	-	-	-
	80	1.31	1.25	1.19	1.12	1.06	1.00	0.92	0.84	0.76	0.66	0.56	0.45	0.27	-	-	-	-
	90	1.26	1.20	1.15	1.10	1.05	1.00	0.94	0.88	0.81	0.73	0.65	0.57	0.47	0.34	0.19	-	-
	110	1.16	1.13	1.10	1.07	1.04	1.00	0.96	0.93	0.89	0.85	0.80	0.76	0.71	0.65	0.60	0.53	0.38

Table 33-7: Correction Factors for Group Installation

Correction Factors for bunched circuits of single-core or multicore cables in air or in wiring enclosures																	
Arrangement of Cables		Correction Factor															
		Number of Circuits															
		1	2	3	4	5	6	7	8	9	10	12	14	16	18	20 >	
Bunched in air		1.00	0.87	0.75	0.72	0.70	0.67	-	-	-	-	-	-	-	-	-	-
Bunched on a surface or enclosed		1.00	0.80	0.70	0.65	0.60	0.57	0.54	0.52	0.50	0.48	0.45	0.43	0.41	0.39	0.38	
Single layer on wall or floor	Touching	1.00	0.85	0.79	0.75	0.73	0.72	0.72	0.71	0.70	0.70	0.70	0.70	0.70	0.70	0.70	
	Spaced	1.00	0.94	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
Single layer on wall under ceiling	Touching	0.95	0.81	0.72	0.68	0.66	0.64	0.63	0.62	0.61	0.61	0.61	0.61	0.61	0.61	0.61	
	Spaced	0.95	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	

Notes: 1. This factors are applicable to numbers of circuits comprising the following:

- Group of two, three or four single-core cables
- Multicore cables
- Cables passing more than once through the same group of cables or wiring enclosures and circuits connected in parallel

2. Spaced means a clearance of one cable diameter between cable surfaces of adjacent cables. Where the cables concern are not of the same size, the spacing will be based on the largest cable diameter in the adjacent group.

3. Earthing conductors, lightly loaded neutral conductors of three-phase circuits and conductors subject only to momentary loading, such as control wiring, are not taken into account when the number of circuits

4. These factors are based on uniform groups of cables, equally loaded.

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T33 Selection Table

T33: Correction Factors

Table 33-8: Correction Factors for Installation in Trays (Single-core)

Correction Factors for circuits of single core cables installed in trays, racks, cleats, or other supports in air

Installation		Number of tier or rows of cable support	Arrangements of cables in a circuits	Correction Factors		
				Number of Circuits per tier or row		
				1	2	3
Unperforated trays		1	2 or 3 cables in horizontal formation	0.95	0.85	0.84
		2		0.92	0.83	0.79
		3		0.91	0.82	0.76
Perforated trays		1	2 or 3 cables in horizontal formation	0.97	0.89	0.87
		2		0.94	0.85	0.81
		3		0.93	0.84	0.79
Ladder supports, racks and cleats		1	2 or 3 cables in horizontal formation	1.00	0.95	0.94
		2		0.95	0.90	0.88
		3		0.95	0.89	0.85
Vertical perforated trays		1	2 or 3 cables in vertical formation	0.94	0.85	-
		2		0.92	0.83	-
Unperforated trays		1	2 or 3 cables in horizontal formation	0.98	0.96	0.94
		2		0.95	0.91	0.87
		3		0.94	0.90	0.85
Perforated trays		1	2 or 3 cables in horizontal formation	1.00	0.98	0.96
		2		0.97	0.93	0.89
		3		0.96	0.92	0.86
Ladder supports		1	2 or 3 cables in horizontal formation	1.00	1.00	1.00
		2		0.97	0.95	0.93
		3		0.97	0.94	0.90
Vertical perforated trays		1	2 or 3 cables in vertical formation	1.00	0.91	0.89
		2		1.00	0.90	0.86

Table 33-9: Correction Factors for Installed in Trays (Multicore)

Correction Factors for circuits of multicore cables installed in trays, racks, cleats, or other supports in air

Installation		Number of tier or rows of cable support	Correction Factors					
			Number of Circuits per tier or row					
			1	2	3	4	5	6
Unperforated trays		1	0.97	0.85	0.78	0.75	0.71	0.68
		2	0.97	0.84	0.76	0.73	0.68	0.63
		3	0.97	0.83	0.75	0.72	0.66	0.61
		1	0.97	0.96	0.94	0.93	0.90	-
		2	0.97	0.95	0.92	0.90	0.86	-
		3	0.97	0.94	0.91	0.89	0.84	-
Perforated trays		1	1.00	0.88	0.82	0.78	0.76	0.73
		2	1.00	0.87	0.80	0.76	0.73	0.68
		3	1.00	0.86	0.79	0.75	0.71	0.66
		1	1.00	1.00	0.98	0.95	0.91	-
		2	1.00	0.99	0.96	0.92	0.87	-
		3	1.00	0.98	0.95	0.91	0.85	-
Ladder supports, racks and cleats		1	1.00	0.87	0.82	0.80	0.79	0.78
		2	1.00	0.86	0.80	0.78	0.76	0.73
		3	1.00	0.85	0.79	0.76	0.73	0.70
		1	1.00	1.00	1.00	1.00	1.00	-
		2	1.00	0.99	0.98	0.97	0.96	-
		3	1.00	0.98	0.97	0.96	0.93	-
Vertical perforated trays		1	1.00	0.88	0.82	0.77	0.73	0.72
		2	1.00	0.88	0.81	0.76	0.72	0.70
		1	1.00	0.91	0.89	0.88	0.87	-
		2	1.00	0.91	0.88	0.87	0.86	-

Notes: 1. Vertical spacing of horizontal trays and ladder supports shall not be less than 300 mm.

2. The horizontal spacing of vertical trays mounted back to back shall not be less than 230 mm.

3. "D" equals the cable outside diameter or in the case of a flat multicore cable the maximum dimension of the cable.

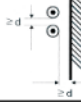
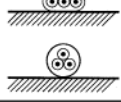
4. These factors are applicable to single layers of cables or trefoil groups. Where there is more than one layer on the same tray or ladder support, Table 4-12 may be used.

Disclaimer: Reference to AS/ NZS 3008.1.1 Standard. Material provided is for reference only, please refer to the latest version of the AS/ NZS 3008.1.1 Standard.

Table 34-1: Current Rating and Rating Factors

Cables having PVC Insulation, sheathed (Copper Conductor) 300/500 V
Cable Categories: YSLY, YSLCY, FLEXI UL 1007 SC, FLEXI UL 1015 SC

Current Rating Capacities (Amp)

Conductor cross-sectional area	Single-core in free air	2- and 3-core upon or on surface
		
mm²	A	A
0.14	3	2
0.25	5	4
0.34	8	6
0.5	12	9
0.75	15	12
1.0	19	15
1.5	24	18
2.5	32	26
4	42	34
6	54	44
10	73	61
16	98	82
25	129	108
35	158	135
50	198	168
70	245	207
95	292	250
120	344	292
150	391	335
185	448	382
240	528	453
300	608	523

Rating factors for other number of cores		
Number of current carrying conductors	Rating factors for cables in free air	Rating factors for cables in earth (burial)
5	0.75	0.70
7	0.65	0.60
10	0.55	0.50
14	0.50	0.45
19	0.45	0.40
24	0.40	0.35
40	0.35	0.30
61	0.30	0.25

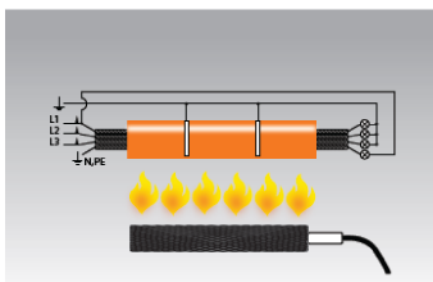
Rating factors for other ambient temperatures												
°C	10	15	20	25	30	35	40	45	50	55	60	65
Factors	1.22	1.17	1.12	1.06	1.00	0.94	0.87	0.79	0.71	0.61	0.50	0.35

Notes: These ratings are based on ambient air temperature of 30 °C and conductor temperature of 70 °C.

Table 35-1: Fire Performance Test of Fire Resistant Cables

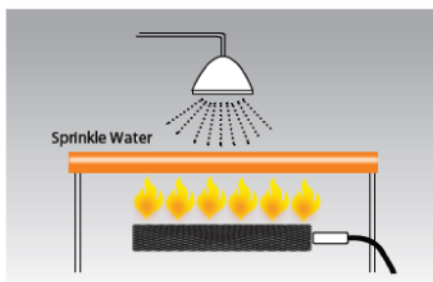
LAPP KABEL FR-6387 cable range have been tested, certified and approved to achieved the fire test ratings:

- i. BS 6387 Category C, W, and Z
- ii. SS 299 PLS Class 1A


Circuit Integrity

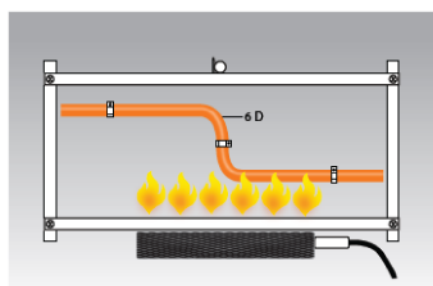
Resistance to fire alone:

- IEC 60331-21, 3 hrs at 750°C.
- BS 6387 Cat. C, 3 hrs at 950°C.
- SS 299-1, 3 hrs at 950°C.



Resistance to fire with water:

- BS 6387 Cat. W, 15 mins at 650°C plus 15 mins with water spray.
- SS 299-1, 15 mins at 650°C plus 15 mins with water spray.



Resistance to fire with mechanical shock:

- BS 6387 Cat. Z, 15 mins at 950°C with mechanical shock.
- SS 299-1, 15 mins at 950°C with mechanical shock.

The compound used in this Fire Resistant cables are also in accordance to:

Flame Propagation

Test on single insulated cable:

- IEC 60332-1-2, 60 sec / 120 sec.

Test on bunch cable:

- IEC 60332-3-22, 7 litres flammable material/meter for 40 mins.
- IEC 60332-3-24, 1.5 litres flammable material/meter for 20 mins.

Gas Evolved During Combustion

Determination of the amount of halogen acid gases:

- IEC 60754-1, Halogen content of all non-metallic components must be less than 0.5% or 5 mg/g.

Measuring of PH and conductivity:

- IEC 60754-2, PH value must be less than 4.3, and conductivity at min. 10 usec/m.

Smoke Emission

Measurement of smoke density of cables:

- IEC 61034-2, Min. 60% of light transmitted for a duration of 40 mins.

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1270001	21	1270165	21	1270374	22	1270577	23	1270766	24	1270961	26
1270002	21	1270166	21	1270375	22	1270578	23	1270767	24	1270962	26
1270003	21	1270167	21	1270376	22	1270579	23	1270768	24	1270963	26
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For the use of our products is valid

The conformity of our products with the relevant European directives and compliance with the provisions contained therein shall be indicated by the CE marking.

The safety of our products is closely associated with how they are used. A knowledge of and adherence to the respective international/national standards of use (e.g. DIN VDE 0100; 0298) are mandatory.

There are particular risks if installed improperly. This applies to all our products/items:

Processing is only to be done by an authorized electrician! Otherwise, there is the risk of an electric shock or a fire ignited by electric current!

Safety

Without exception our products are tested for application safety in accordance with laid down standards and our own regulations, which complement the standards. Relevant legal requirements and safety regulations are also observed. Provided due care and attention is paid, the possibility of product-specific danger to the user may thus reasonably be excluded. Where products are used carelessly or incorrectly, however, considerable

danger to persons and the environment may arise. For this reason, our cables must only be processed and/or used responsibly by trained electricians or specialists. This catalogue contains general information for the application of each product. Independent of such information, the application standards DIN VDE 0298 and DIN VDE 001 for cables will apply. Excerpts from these standards, as well as complementary selection and

application tables, design and installation guidelines, are contained in the tables in the appendix to our current Main Catalogue. Our machines and installation tools are – where necessary – designed in accordance with the machine guidelines and display the CE identification mark. It must be noted, however, that our machines and installation tools must only be used by trained specialized personnel and for the purpose for

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