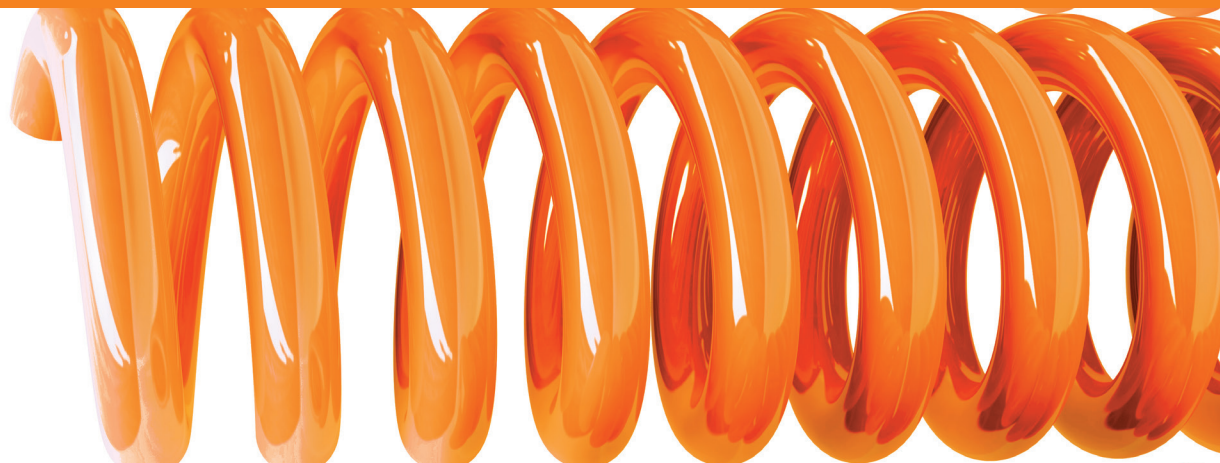


SPIRALKABLER

Fra Lapp Norway



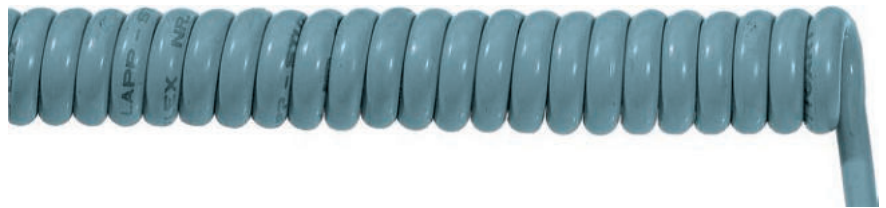


ÖLFLEX® SPIRAL 400 P

PUR spiral cable with increased chemical resistance

i Info

- High resistance to benzols, benzines and other substances listed in Appendix T1
- High mechanical strength
- Available in cross sections starting at 0,5 mm²



Benefits

- High restoring forces and extension lengths up to 3 times the unextended spiral length
- Increased durability under harsh conditions thanks to robust PUR outer sheath
- Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media

Application range

- As control and power cables in machines
- Mechanical engineering
- Apparatus construction

Product features

- Resistant to microbes, hydrolysis and almost all mineral oils
- High chemical-resistance to benzols, benzenes and other agents listed in the selection table in Appendix T1
- Abrasion and notch-resistant

Norm references / Approvals

- Core based on VDE 0812/0285
- Outer sheath based on VDE 0250/0285

Product Make-up

- Fine-wire strand made of bare copper wires
- Core insulation: Special PVC P8/1
- Use of talcum
- Outer sheath made of special polyurethane
- Length of straight ends: 1st end = 200 mm, 2nd end = 600 mm
- Versions without the mandatory LAPP designation, but with other solid lengths, end lengths and end forms available on request

Technical data

- Classification ETIM 5/6**
ETIM 5.0/6.0 Class-ID: EC000247
ETIM 5.0/6.0 Class-Description: Spiralized cable
- Core identification code**
Black with white numbers acc. to VDE 0293-334
- Conductor stranding**
Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
- Nominal voltage**
U0/U: 300/500 V
- Test voltage**
3000 V
- Protective conductor**
G = with GN-YE protective conductor
X = without protective conductor
- Temperature range**
Flexible use: +5°C to +50°C

Article number	Number of cores and mm ² per conductor	Spiral length, extended (mm)	Spiral length, unextended (mm)	Cable diameter (mm)	Spiral outer diameter (mm)
ÖLFLEX® SPIRAL 400 P					
70002598	2 X 0.5	1500	500	5.5	20
70002599	2 X 0.5	3000	1000	5.5	20
70002600	2 X 0.5	4500	1500	5.5	20
70002601	2 X 0.5	6000	2000	5.5	20
70002602	3 G 0.5	1500	500	5.8	21
70002603	3 G 0.5	3000	1000	5.8	21
70002604	3 G 0.5	4500	1500	5.8	21
70002605	3 G 0.5	6000	2000	5.8	21
70002606	4 G 0.5	1500	500	6.2	21
70002607	4 G 0.5	3000	1000	6.2	21
70002608	4 G 0.5	4500	1500	6.2	21
70002609	4 G 0.5	6000	2000	6.2	21
70002610	5 G 0.5	1500	500	6.7	25
70002611	5 G 0.5	3000	1000	6.7	25
70002612	5 G 0.5	4500	1500	6.7	25
70002613	5 G 0.5	6000	2000	6.7	25
70002614	7 G 0.5	1500	500	7.6	29
70002615	7 G 0.5	3000	1000	7.6	29
70002616	7 G 0.5	4500	1500	7.6	29
70002617	7 G 0.5	6000	2000	7.6	29
70002618	12 G 0.5	1500	500	9.5	32
70002619	12 G 0.5	3000	1000	9.5	32
70002620	18 G 0.5	1500	500	11	42
70002621	18 G 0.5	3000	1000	11	42
70002622	2 X 0.75	1500	500	5.6	19.5
70002623	2 X 0.75	3000	1000	5.6	19.5
70002624	2 X 0.75	4500	1500	5.6	19.5
70002625	2 X 0.75	6000	2000	5.6	19.5
70002628	3 G 0.75	1500	500	5.9	20
70002629	3 G 0.75	3000	1000	5.9	20
70002630	3 G 0.75	4500	1500	5.9	20
70002631	3 G 0.75	6000	2000	5.9	20
70002634	4 G 0.75	1500	500	6.4	21

Article number	Number of cores and mm ² per conductor	Spiral length, extended (mm)	Spiral length, unextended (mm)	Cable diameter (mm)	Spiral outer diameter (mm)
70002635	4 G 0.75	3000	1000	6.4	21
70002636	4 G 0.75	4500	1500	6.4	21
70002637	4 G 0.75	6000	2000	6.4	21
70002640	5 G 0.75	1500	500	6.9	24
70002641	5 G 0.75	3000	1000	6.9	24
70002642	5 G 0.75	4500	1500	6.9	24
70002643	5 G 0.75	6000	2000	6.9	24
70002726	7 G 0.75	1500	500	7.5	27
70002727	7 G 0.75	3000	1000	7.5	27
70002728	7 G 0.75	4500	1500	7.5	27
70002729	7 G 0.75	6000	2000	7.5	27
70002731	12 G 0.75	1500	500	9.9	35
70002732	12 G 0.75	3000	1000	9.9	35
70002734	18 G 0.75	1500	500	11.9	40
70002735	18 G 0.75	3000	1000	11.9	40
70002646	2 X 1.0	1500	500	5.9	20
70002647	2 X 1.0	3000	1000	5.9	20
70002648	2 X 1.0	4500	1500	5.9	20
70002649	2 X 1.0	6000	2000	5.9	20
70002651	3 G 1.0	1500	500	6.2	21
70002652	3 G 1.0	3000	1000	6.2	21
70002653	3 G 1.0	4500	1500	6.2	21
70002654	3 G 1.0	6000	2000	6.2	21
70002656	4 G 1.0	1500	500	6.7	24
70002657	4 G 1.0	3000	1000	6.7	24
70002658	4 G 1.0	4500	1500	6.7	24
70002659	4 G 1.0	6000	2000	6.7	24
70002661	5 G 1.0	1500	500	7.3	25
70002662	5 G 1.0	3000	1000	7.3	25
70002663	5 G 1.0	4500	1500	7.3	25
70002664	5 G 1.0	6000	2000	7.3	25
70002666	7 G 1.0	1250	500	8.2	30
70002667	7 G 1.0	2500	1000	8.2	30
70002668	7 G 1.0	3750	1500	8.2	30
70002669	7 G 1.0	5000	2000	8.2	30
70002670	12 G 1.0	1500	500	10.9	37
70002671	12 G 1.0	3000	1000	10.9	37
70002672	18 G 1.0	1500	500	12.7	45
70002673	18 G 1.0	3000	1000	12.7	45
70002681	2 X 1.5	1500	500	6.5	23
70002682	2 X 1.5	3000	1000	6.5	23
70002683	2 X 1.5	4500	1500	6.5	23
70002684	2 X 1.5	6000	2000	6.5	23
70002687	3 G 1.5	1500	500	6.9	24
70002688	3 G 1.5	3000	1000	6.9	24
70002689	3 G 1.5	4500	1500	6.9	24
70002690	3 G 1.5	6000	2000	6.9	24
70002699	5 G 1.5	1250	500	8.3	30
70002700	5 G 1.5	2500	1000	8.3	30
70002701	5 G 1.5	3750	1500	8.3	30
70002702	5 G 1.5	5000	2000	8.3	30
70002705	7 G 1.5	1250	500	9.1	31
70002706	7 G 1.5	2500	1000	9.1	31
70002707	7 G 1.5	3750	1500	9.1	31
70002708	7 G 1.5	5000	2000	9.1	31
70002709	12 G 1.5	1500	500	12.2	46
70002710	12 G 1.5	3000	1000	12.2	46
70002711	18 G 1.5	1500	500	14.2	52
70002712	18 G 1.5	3000	1000	14.2	52
70002716	3 G 2.5	1250	500	8.3	28.5
70002717	3 G 2.5	2500	1000	8.3	28.5
70002718	3 G 2.5	3750	1500	8.3	28.5
70002719	3 G 2.5	5000	2000	8.3	28.5
70002721	5 G 2.5	1250	500	10	37
70002722	5 G 2.5	2500	1000	10	37
70002723	5 G 2.5	3750	1500	10	37
70002724	5 G 2.5	5000	2000	10	37

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.
Photographs and graphics are not to scale and do not represent detailed images of the respective products.
Versions without the mandatory LAPP designation, but with other solid lengths, end lengths and end forms available on request

Similar products

- ÖLFLEX® SPIRAL 540 P refer to page 262



ÖLFLEX® SPIRAL 540 P

Robust, halogen-free PUR spiral cable with high restoring forces



Info

- High restoring forces
- Halogen-free
- Voltage class from 1.5 mm² 450/750 V

Benefits

- Extension lengths of up to 3.5 times the unextended spiral length, high recoiling forces
- The signal colour of the outer sheath increases safety and visual perception
- Increased durability under harsh conditions thanks to robust PUR outer sheath
- Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media
- Wide temperature range for applications in harsh climatic environments

Application range

- Harsh conditions
- Mechanical engineering
- Construction industry
- Medical equipment
- In damp interiors or outdoors

Product features

- UV-resistant (but colour may change after some time)
- Halogen-free
- Good resistance of the outer sheath to cutting and abrasion
- High resistance to oil, low temperatures, microbes and hydrolysis
- Flexible down to -30°C

Product Make-up

- Strands of tinned-copper wires
- Core insulation: TPE
- Outer sheath made of special polyurethane
- Length of straight ends: 1st end = 200 mm, 2nd end = 600 mm
- Versions without the mandatory LAPP designation, but with other solid lengths, end lengths and end forms available on request

Technical data

Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000247
ETIM 5.0/6.0 Class-Description: Spiralized cable

Core identification code
Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9
From 6 cores: black with white numbers

Conductor stranding
Fine wire according to VDE 0295
Class 5 / IEC 60228 Class 5

Nominal voltage
0.75 - 1 mm²: U₀/U: 300/500 Vac
As from 1.5 mm²: U₀/U = 450/750 Vac

Test voltage
3000 V

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

Temperature range
Flexible use: -30°C to +50°C

Article number	Number of cores and mm ² per conductor	Spiral length, extended (mm)	Spiral length, unextended (mm)	Cable diameter (mm)	Spiral outer diameter (mm)
U₀/U: 300/500 V					
73220107	2 X 0.75	1000	300	6.6	23
73220108	2 X 0.75	2000	600	6.6	23
73220109	2 X 0.75	3500	1000	6.6	23
73220110	2 X 0.75	5000	1500	6.6	23
73220111	3 G 0.75	1000	300	7	24
73220112	3 G 0.75	2000	600	7	24
73220113	3 G 0.75	3500	1000	7	24
73220114	3 G 0.75	5000	1500	7	24
71220115	4 G 0.75	1000	300	7.6	29
71220116	4 G 0.75	2000	600	7.6	29
71220117	4 G 0.75	3500	1000	7.6	29
71220118	4 G 0.75	5000	1500	7.6	29
71220119	5 G 0.75	1000	300	8.5	31
71220120	5 G 0.75	2000	600	8.5	31
71220121	5 G 0.75	3500	1000	8.5	31
71220122	5 G 0.75	5000	1500	8.5	31
73220123	2 X 1.0	1000	300	7	24
73220124	2 X 1.0	2000	600	7	24
73220125	2 X 1.0	3500	1000	7	24
73220126	2 X 1.0	5000	1500	7	24
73220127	3 G 1.0	1000	300	7.4	29
73220128	3 G 1.0	2000	600	7.4	29
73220129	3 G 1.0	3500	1000	7.4	29
73220130	3 G 1.0	5000	1500	7.4	29
71220131	4 G 1.0	1000	300	8.2	30
71220132	4 G 1.0	2000	600	8.2	30
71220133	4 G 1.0	3500	1000	8.2	30
71220134	4 G 1.0	5000	1500	8.2	30
71220135	5 G 1.0	1000	300	9	32
71220136	5 G 1.0	2000	600	9	32
71220137	5 G 1.0	3500	1000	9	32
71220138	5 G 1.0	5000	1500	9	32
73220139	7 G 1.0	1000	350	10.9	40
73220140	7 G 1.0	2000	700	10.9	40
73220141	7 G 1.0	3500	1200	10.9	40
73220142	7 G 1.0	5000	1700	10.9	40

Article number	Number of cores and mm ² per conductor	Spiral length, extended (mm)	Spiral length, unextended (mm)	Cable diameter (mm)	Spiral outer diameter (mm)
U0/U: 450/750 V					
73220143	2 X 1.5	1000	300	8.4	31
73220144	2 X 1.5	2000	600	8.4	31
73220145	2 X 1.5	3500	1000	8.4	31
73220146	2 X 1.5	5000	1500	8.4	31
73220147	3 G 1.5	1000	300	8.9	32
73220148	3 G 1.5	2000	600	8.9	32
73220149	3 G 1.5	3500	1000	8.9	32
73220150	3 G 1.5	5000	1500	8.9	32
71220151	5 G 1.5	1000	350	10.9	40
71220152	5 G 1.5	2000	700	10.9	40
71220153	5 G 1.5	3500	1200	10.9	40
71220154	5 G 1.5	5000	1700	10.9	40
73220155	7 G 1.5	1000	350	13.5	52
73220156	7 G 1.5	2000	700	13.5	52
73220157	7 G 1.5	3500	1200	13.5	52
73220158	7 G 1.5	5000	1700	13.5	52
73220159	3 G 2.5	1000	350	10.6	40
73220160	3 G 2.5	2000	700	10.6	40
73220161	3 G 2.5	3500	1200	10.6	40
73220162	3 G 2.5	5000	1700	10.6	40
71220163	5 G 2.5	1000	350	13.4	51
71220164	5 G 2.5	2000	700	13.4	51
71220165	5 G 2.5	3500	1200	13.4	51
71220166	5 G 2.5	5000	1700	13.4	51

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
 Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.
 Photographs and graphics are not to scale and do not represent detailed images of the respective products.
 Versions without the mandatory LAPP designation, but with other solid lengths, end lengths and end forms available on request

Similar products

- ÖLFLEX® SPIRAL 400 P refer to page 259
- ÖLFLEX® SPIRAL 540 P with angular, isolated ground plug refer to page 264

ÖLFLEX® PUR S

Flexibel köldbäständig styrkabel i polyuretan med extra fintrådiga ledare

Styr- och kontrollkabel för tuffa applikationer, med extra fintrådiga ledare. Lämplig för spiralisering. Se teknisk data och och beställ i vår webshop.

Info

Mycket mjuk och flexibel tack vare superfintrådiga ledare, köldflexibel ner till -40°C
För installation på fordon för skog, gräv och industriella maskiner och maskinverktyg
Oljebemängda miljöer även under mekanisk stress



MILTRONIC



Maskin- och anläggningkonstruktion



Lämplig för användning utomhus



God kemisk resistens



Halogenfri



Köldbäständig



Mekanisk resistens



Oljeresistent



UV-bäständig

Fördelar

Senaste uppdatering (23.06.2020)

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Produktansvar <http://se.lappgroup.com>

Du kan hitta den aktuella tekniska data i motsvarande datablad.

PN 0456 / 02_03.16

ÖLFLEX® PUR S

Styr- och kontrollkabel för tuffa applikationer
Mycket mjuk och flexibel tack vare superfintrådiga ledare
Hög mekanisk hållfasthet
Hög oljebeständighet
Köldflexibel ner till -40 °C

Användningsområden

Installation på fordon för skog och gräv
Industriella maskiner och maskinverktyg
Oljebemängda miljöer även under mekanisk stress
Mycket lämplig att spiralisera

Produktegenskaper

Resistent mot mineralbaserade oljor, hydrauloljor, diesel, smörjmedel och många kemikalier.
UV-beständig
Resistent mot hydrolys och mikrober
Halogenfri

Design/Utförande

Extra superfintrådiga ledare av blank koppar
Ledarsolation: PUR
Ledare tvinnade i lager
Yttermantel av special PUR, blank svart

Tekniska data

Märkspänning U _o /U:	300/500 V (mångledare)
Minsta böjningsradie:	Flexibel: 15 x kabeldiametern (oskärmad)
Provspänning:	3000 V
Skyddsledare:	G = Grön/gul, X = Utan skyddsledare
Isolationsmotstånd:	>150 kOhm x km
Temperaturområde:	Flexibel: -40 °C till +80 °C Fast: -50 °C till +80 °C

Observera

Priser som visas i artikeltabeller innan du loggar in är bruttopriser. Exklusive koppartillägg för kabel. Ditt nettopris visas först efter inloggning i Kassan.
Detaljerad information om det totala priset inkl. fraktkostnad samt eventuella tillägg och avgifter visas först i Kassan i steget Prisinformation.

ÖLFLEX® PUR S

Art nr	E-nummer	Antal ledare och mm ² per ledare	Ledaruppbyggnad (mm)	Färgkod	Yttre diameter (mm)	Kopparindex (kg/km)	Vikt (kg/km)
ÖLFLEX® PUR S 15 färgmärkta ledare							
38004346	-	4 X 0,5	256 X 0,05	Svart, röd, blå, vit	6,1	19	47
ÖLFLEX® PUR S 17 färgmärkta ledare							
38000969	0299820	2 X 0,5	131 X 0,07	Svart, grå	5,3	9	34
38000971	0299830	4 G 0,5	131 X 0,07	Svart, blå, brun, g/g	6,1	19	49
30050036	-	6 X 0,5	131 X 0,07	Svart, grå, röd, blå, gul, grön	7,3	28	70
38000975	0299840	12 G 0,5	131 X 0,07	ÖLFLEX® färgkod, se lapp.se/tekniska-dokument	9,5	58	126
38000980	0299850	2 X 0,75	195 X 0,07	Svart, grå	5,8	14	42
38000981	0299870	3 G 0,75	195 X 0,07	ÖLFLEX® färgkod, se lapp.se/tekniska-dokument	6,1	21	50
38112566	0299860	3 X 0,75	195 X 0,07	Svart, röd, grå	6,1	24	50
38000982	0299890	4 G 0,75	195 X 0,07	Svart, blå, brun, g/g	6,7	28	66
38006360	0299880	4 X 0,75	195 X 0,07	Svart, röd blå, vit	6,7	32	66
38003260	0299900	7 G 0,75	195 X 0,07	ÖLFLEX® färgkod, se lapp.se/tekniska-dokument	8,6	50	181
38000987	0299910	12 G 0,75	195 X 0,07	ÖLFLEX® färgkod, se lapp.se/tekniska-dokument	10,7	86	191
38000988	0299920	15 G 0,75	195 X 0,07	ÖLFLEX® färgkod, se lapp.se/tekniska-dokument	12,1	108	203
38000989	0299930	18 G 0,75	195 X 0,07	ÖLFLEX® färgkod, se lapp.se/tekniska-dokument	12,9	130	231
38000991	-	25 G 0,75	195 X 0,07	ÖLFLEX® färgkod, se lapp.se/tekniska-dokument	15,4	180	400
38001005	0299940	2 X 1,5	392 X 0,07	Svart, grå	7	29	64
38001006	0299950	3 G 1,5	392 X 0,07	Brun, blå, g/g	7,4	43	81
38001013	0299960	12 G 1,5	392 X 0,07	ÖLFLEX® färgkod, se lapp.se/tekniska-dokument	13,6	173	274
ÖLFLEX® PUR S 27 siffermärkta ledare							
38002560	-	3 X 0,5	131 X 0,07	-	5,6	14	37

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 Produktansvar <http://se.lappgroup.com>

Du kan hitta den aktuella tekniska data i motsvarande datablad.

PN 0456 / 02_03.16

ÖLFLEX® PUR S

Art nr	E-nummer	Antal ledare och mm ² per ledare	Ledarupbyggnad (mm)	Färgkod	Yttre diameter (mm)	Kopparindex (kg/km)	Vikt (kg/km)
38002561	-	4 X 0,5	131 X 0,07	-	6,1	19	51
38002568	-	3 X 0,75	195 X 0,07	-	6,1	21	48
38002569	-	4 X 0,75	195 X 0,07	-	6,7	28	61
38002571	-	5 X 0,75	195 X 0,07	-	7,3	36	74
38003443	-	7 X 0,75	195 X 0,07	-	8,6	50	100
38002154	-	20 X 0,75	195 X 0,07	-	13	144	300
38000424	-	25 X 1,0	260 X 0,07	-	16,3	240	407
38003220	-	3 X 1,5	392 X 0,07	-	7,4	43	81
38003270	-	4 X 1,5	392 X 0,07	-	8,6	58	103
38002567	-	3 G 0,75	195 X 0,07	-	6,1	21	48
38002570	-	4 G 0,75	195 X 0,07	-	6,7	28	61
38002572	-	5 G 0,75	195 X 0,07	-	7,3	36	74
38002947	-	7 G 0,75	195 X 0,07	-	8,6	50	100
38002948	-	12 G 0,75	195 X 0,07	-	10,7	86	152
38000332	-	25 G 0,75	195 X 0,07	-	15,4	180	324
38003612	-	4 G 1,5	392 X 0,07	-	8,3	58	103
ÖLFLEX® PUR S 127 siffer- och färgmärkta ledare							
38006355	-	8 X 0,75	195 X 0,07	1 Brun, 2 Röd, 3, Orange, 4 Gul, 5 Grön, 6 Blå, 7 Lila, 8 Grå	9	57	-
38006356	-	11 X 0,75	195 X 0,07	1 Brun, 2 Röd, 3, Orange, 4 Gul, 5 Grön, 6 Blå, 7 Lila, 8 Grå, 9 Vit, 10 Transparent, 11 Beige	10,6	84	-
Enkelledare i PUR							
83109679	-	1 X 0,34	173 X 0,05	Svart	1,6	3	-

Senaste uppdatering (23.06.2020)

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 Produktansvar <http://se.lappgroup.com>

Du kan hitta den aktuella tekniska data i motsvarande datablad.

PN 0456 / 02_03.16



SPIRAL H07BQ-F BLACK

Black, robust PUR spiral cable with high recoiling forces



Info

- Heavy construction type
- Outer sheath: PUR, with high recoiling forces
- Voltage rating 450/750 V

Benefits

- Good cost-benefit ratio
- Increased durability under harsh conditions thanks to robust PUR outer sheath
- Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media
- Wide application range

Application range

- Construction of engines and appliances with flexible power connections as well as at dockyards
- Construction of machinery and powered doors
- Measurement and control technology
- Any commercial/industrial/agricultural facility: connection of tools, appliances and mobile motors
- For indoor and outdoor use

Product features

- Black, robust outer PUR sheath
- High tensile strength and abrasion-resistance
- High restoring forces
- High resistance to oil, low temperatures, microbes and hydrolysis

Norm references / Approvals

- Based on EN 50525-2-21 H07BQ-F
- The spiralling modifies the properties of the <HAR> certified H07BQ-F cable (sold by the metre) that certain technical requirements stipulated by the H07BQ-F standards are no longer complied with following spiralling. As a result, the <HAR> H07BQ-F design certification of the H07BQ-F cable, also identifiable on the spiral cable, is no longer valid in conjunction with the spiralled piece good design of the „SPIRAL H07BQ-F BLACK“. This is a completely logical consequence of the spiralling processing steps.

Product Make-up

- Tinned stranded copper wire of braided conductor class 5 according to IEC 60228/VDE 0295
- Core insulation: El6 rubber according to EN 50525-1 & EN 50363-1/ VDE 0207-363-1; coloured according to HD 308/ VDE 0293-308; VDE and HAR marking of the unspiralled H07BQ-F (sold by the metre) as the basic material for the spiralling
- Use of talcum
- Black, outer PUR sheath made of TMPU according to EN 50525-2-21; marking „H07BQ-F ...“
- For the 4 standard solid lengths available, please see the article table below
- Radial outflow shape at cable ends - length of ends: 200 mm at the first end/600 mm at the other end
- Versions with other solid lengths, end lengths and end forms available on request

Technical data

- Classification ETIM 5/6**
ETIM 5.0/6.0 Class-ID: EC000247
ETIM 5.0/6.0 Class-Description: Spiralled cable
- Core identification code**
Coloured according to VDE 0293-308 (HD 308)
- Conductor stranding**
Fine wire according to IEC 60228/ VDE 0295, class 5 tinned strands
- Minimum bending radius**
Flexible use: 12.5 x outer diameter
- Nominal voltage**
U0/U: 450/750 V
- Test voltage**
3000 V
- Protective conductor**
G = with GN-YE protective conductor
- Temperature range**
-25 °C to +50 °C (spiralled)

Article number	Number of cores and mm ² per conductor	Spiral length, extended (mm)	Spiral length, unextended (mm)	Cable diameter (mm)	Spiral outer diameter (mm)
SPIRAL H07BQ-F BLACK					
70002750	3 G 1.5	1500	500	9	31
70002751	3 G 1.5	3000	1000	9	31
70002752	3 G 1.5	4500	1500	9	31
70002753	3 G 1.5	6000	2000	9	31
70002754	4 G 1.5	1500	500	10	38
70002755	4 G 1.5	3000	1000	10	38
70002756	4 G 1.5	4500	1500	10	38
70002757	4 G 1.5	6000	2000	10	38
70002758	5 G 1.5	1500	500	11	40
70002759	5 G 1.5	3000	1000	11	40
70002760	5 G 1.5	4500	1500	11	40
70002761	5 G 1.5	6000	2000	11	40

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges. Photographs and graphics are not to scale and do not represent detailed images of the respective products. Each item is packed separately in a plastic bag. Versions with other solid lengths, end lengths and end forms available on request

Similar products

- ÖLFLEX® SPIRAL 400 P refer to page 259
- ÖLFLEX® SPIRAL 540 P refer to page 262

Accessories

- SKINTOP® BS-M refer to page 683
- SKINTOP® BS refer to page 772
- SKINTOP® CLICK BS refer to page 685
- SKINTOP® BT refer to page 773



UNITRONIC® SPIRAL

Spiral cable with outer PUR sheath and overall shielding for exact impulse transmission

Info

- Secure against electrical interferences
- PUR outer sheath



Benefits

- Overall screening prevents high frequency interference and guarantees accurate signal transmission
- Extended lengths of up to 4 times the unextended spiral length

Application range

- In measurement and control engineering
- Wherever screened cables with smallest dimensions are required
- For requirements of electronic applications
- Handling and measurement equipment
- Conveyor and transport systems

Product features

- Abrasion and cut-resistant
- Very high flexibility

Product Make-up

- Conductor made of bare copper wires
- Core insulation: Based on PVC
- Screening: wrapped with braided copper wires
- Outer sheath: PUR compound
- Length of straight ends: 1st end = 200 mm, 2nd end = 600 mm
- Versions without the mandatory LAPP designation, but with other solid lengths, end lengths and end forms available on request

Technical data

Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000247
ETIM 5.0/6.0 Class-Description:
Spiralised cable

Core identification code
DIN 47100

Peak operating voltage
250 V (not for power transmission)

Conductor stranding
Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6

Test voltage
1200 V

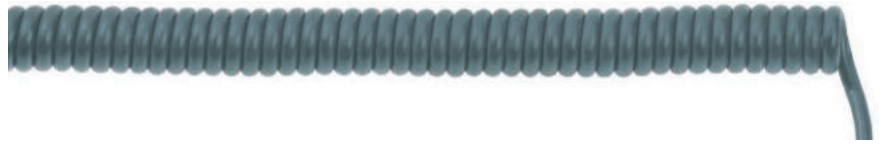
Temperature range
Flexing: -5°C to +50°C

Article number	Number of cores and mm ² per conductor	Spiral length, extended (mm)	Spiral length, unextended (mm)	Cable diameter (mm)	Spiral outer diameter (mm)
UNITRONIC® SPIRAL					
73220200	2 x 0.14	400	100	4.1	15
73220201	2 x 0.14	800	200	4.1	15
73220202	2 x 0.14	1200	300	4.1	15
73220203	2 x 0.14	1600	400	4.1	15
73220204	2 x 0.14	2000	500	4.1	15
73220205	3 x 0.14	400	100	4.3	18
73220206	3 x 0.14	800	200	4.3	18
73220207	3 x 0.14	1200	300	4.3	18
73220208	3 x 0.14	1600	400	4.3	18
73220209	3 x 0.14	2000	500	4.3	18
73220210	4 x 0.14	400	100	4.5	19
73220211	4 x 0.14	800	200	4.5	19
73220212	4 x 0.14	1200	300	4.5	19
73220213	4 x 0.14	1600	400	4.5	19
73220214	4 x 0.14	2000	500	4.5	19
73220215	5 x 0.14	400	100	4.8	20
73220216	5 x 0.14	800	200	4.8	20
73220217	5 x 0.14	1200	300	4.8	20
73220218	5 x 0.14	1600	400	4.8	20
73220219	5 x 0.14	2000	500	4.8	20
73220220	6 x 0.14	400	100	5.5	21
73220221	6 x 0.14	800	200	5.5	21
73220222	6 x 0.14	1200	300	5.5	21
73220223	6 x 0.14	1600	400	5.5	21
73220224	6 x 0.14	2000	500	5.5	21
73220225	7 x 0.14	400	100	5.9	23
73220226	7 x 0.14	800	200	5.9	23
73220227	7 x 0.14	1200	300	5.9	23
73220228	7 x 0.14	1600	400	5.9	23
73220229	7 x 0.14	2000	500	5.9	23
73220230	12 x 0.14	400	100	7.2	28
73220231	12 x 0.14	800	200	7.2	28
73220232	12 x 0.14	1200	300	7.2	28
73220233	12 x 0.14	1600	400	7.2	28
73220234	12 x 0.14	2000	500	7.2	28
73220235	18 x 0.14	400	100	8	29
73220236	18 x 0.14	800	200	8	29
73220237	18 x 0.14	1200	300	8	29
73220238	18 x 0.14	1600	400	8	29
73220239	18 x 0.14	2000	500	8	29
73220240	2 x 0.25	400	100	4.7	18
73220241	2 x 0.25	800	200	4.7	18
73220242	2 x 0.25	1200	300	4.7	18
73220243	2 x 0.25	1600	400	4.7	18
73220244	2 x 0.25	2000	500	4.7	18



UNITRONIC® SPIRAL LiF2Y11Y

Spiral cable with outer PUR sheath for exact impulse transmission, unshielded



Info

- Unscreened spiral cable with small cross section
- High restoring forces
- PUR outer sheath

Benefits

- Extended lengths of up to 4 times the unextended spiral length
- Suitable for transportable machines and appliances
- Transmission of control and measuring signals

Application range

- For requirements of electronic applications
- In measurement and control engineering
- Handling and measurement equipment
- Conveyor and transport systems

Product features

- Abrasion and cut-resistant
- Very high flexibility
- Halogen-free and flame-retardant

Product Make-up

- Conductor made of bare copper wires
- Core insulation: Based on Polyolefin
- Outer sheath: PUR compound
- Outer sheath colour: grey
- Length of straight ends: 1st end = 200 mm, 2nd end = 600 mm
- Versions without the mandatory LAPP designation, but with other solid lengths, end lengths and end forms available on request

Technical data

Classification ETIM 5/6
 ETIM 5.0/6.0 Class-ID: EC000247
 ETIM 5.0/6.0 Class-Description: Spiralized cable

Core identification code
 DIN 47100

Peak operating voltage
 250 V (not for power transmission)

Conductor stranding
 Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6

Test voltage
 1200 V

Temperature range
 Flexing: -5°C to +50°C

Article number	Number of cores and mm ² per conductor	Spiral length, extended (mm)	Spiral length, unextended (mm)	Cable diameter (mm)	Spiral outer diameter (mm)
UNITRONIC® SPIRAL LiF2Y11Y					
73220300	2 x 0.14	400	100	3.4	14
73220301	2 x 0.14	800	200	3.4	14
73220302	2 x 0.14	1200	300	3.4	14
73220303	2 x 0.14	1600	400	3.4	14
73220304	2 x 0.14	2000	500	3.4	14
73220305	3 x 0.14	400	100	3.9	15
73220306	3 x 0.14	800	200	3.9	15
73220307	3 x 0.14	1200	300	3.9	15
73220308	3 x 0.14	1600	400	3.9	15
73220309	3 x 0.14	2000	500	3.9	15
73220310	4 x 0.14	400	100	4.2	17
73220311	4 x 0.14	800	200	4.2	17
73220312	4 x 0.14	1200	300	4.2	17
73220313	4 x 0.14	1600	400	4.2	17
73220314	4 x 0.14	2000	500	4.2	17
73220315	5 x 0.14	400	100	4.5	19
73220316	5 x 0.14	800	200	4.5	19
73220317	5 x 0.14	1200	300	4.5	19
73220318	5 x 0.14	1600	400	4.5	19
73220319	5 x 0.14	2000	500	4.5	19
73220320	6 x 0.14	400	100	4.8	19
73220321	6 x 0.14	800	200	4.8	19
73220322	6 x 0.14	1200	300	4.8	19
73220323	6 x 0.14	1600	400	4.8	19
73220324	6 x 0.14	2000	500	4.8	19
73220325	7 x 0.14	400	100	5.1	20
73220326	7 x 0.14	800	200	5.1	20
73220327	7 x 0.14	1200	300	5.1	20
73220328	7 x 0.14	1600	400	5.1	20
73220329	7 x 0.14	2000	500	5.1	20
73220330	12 x 0.14	400	100	5.9	21
73220331	12 x 0.14	800	200	5.9	21
73220332	12 x 0.14	1200	300	5.9	21
73220333	12 x 0.14	1600	400	5.9	21
73220334	12 x 0.14	2000	500	5.9	21
73220335	18 x 0.14	400	100	6.8	27
73220336	18 x 0.14	800	200	6.8	27
73220337	18 x 0.14	1200	300	6.8	27
73220338	18 x 0.14	1600	400	6.8	27
73220339	18 x 0.14	2000	500	6.8	27
73220340	2 x 0.25	400	100	4.3	18
73220341	2 x 0.25	800	200	4.3	18
73220342	2 x 0.25	1200	300	4.3	18

Article number	Number of cores and mm ² per conductor	Spiral length, extended (mm)	Spiral length, unextended (mm)	Cable diameter (mm)	Spiral outer diameter (mm)
73220245	3 x 0.25	400	100	5.3	19
73220246	3 x 0.25	800	200	5.3	19
73220247	3 x 0.25	1200	300	5.3	19
73220248	3 x 0.25	1600	400	5.3	19
73220249	3 x 0.25	2000	500	5.3	19
73220250	4 x 0.25	400	100	5.6	20
73220251	4 x 0.25	800	200	5.6	20
73220252	4 x 0.25	1200	300	5.6	20
73220253	4 x 0.25	1600	400	5.6	20
73220254	4 x 0.25	2000	500	5.6	20
73220255	5 x 0.25	400	100	6	21
73220256	5 x 0.25	800	200	6	21
73220257	5 x 0.25	1200	300	6	21
73220258	5 x 0.25	1600	400	6	21
73220259	5 x 0.25	2000	500	6	21
73220260	6 x 0.25	400	100	6.8	25
73220261	6 x 0.25	800	200	6.8	25
73220262	6 x 0.25	1200	300	6.8	25
73220263	6 x 0.25	1600	400	6.8	25
73220264	6 x 0.25	2000	500	6.8	25
73220265	7 x 0.25	400	100	7.3	26
73220266	7 x 0.25	800	200	7.3	26
73220267	7 x 0.25	1200	300	7.3	26
73220268	7 x 0.25	1600	400	7.3	26
73220269	7 x 0.25	2000	500	7.3	26
73220270	12 x 0.25	400	100	8.4	30
73220271	12 x 0.25	800	200	8.4	30
73220272	12 x 0.25	1200	300	8.4	30
73220273	12 x 0.25	1600	400	8.4	30
73220274	12 x 0.25	2000	500	8.4	30
73220275	18 x 0.25	400	100	9.5	31
73220276	18 x 0.25	800	200	9.5	31
73220277	18 x 0.25	1200	300	9.5	31
73220278	18 x 0.25	1600	400	9.5	31
73220279	18 x 0.25	2000	500	9.5	31

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

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T 17 for the definition and calculation of copper-related surcharges.

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

Versions without the mandatory LAPP designation, but with other solid lengths, end lengths and end forms available on request

Accessories

- SKINTOP® CLICK refer to page 682

Article number	Number of cores and mm ² per conductor	Spiral length, extended (mm)	Spiral length, unextended (mm)	Cable diameter (mm)	Spiral outer diameter (mm)
73220343	2 x 0.25	1600	400	4.3	18
73220344	2 x 0.25	2000	500	4.3	18
73220345	3 x 0.25	400	100	4.5	19
73220346	3 x 0.25	800	200	4.5	19
73220347	3 x 0.25	1200	300	4.5	19
73220348	3 x 0.25	1600	400	4.5	19
73220349	3 x 0.25	2000	500	4.5	19
73220350	4 x 0.25	400	100	4.9	20
73220351	4 x 0.25	800	200	4.9	20
73220352	4 x 0.25	1200	300	4.9	20
73220353	4 x 0.25	1600	400	4.9	20
73220354	4 x 0.25	2000	500	4.9	20
73220355	5 x 0.25	400	100	5.3	20
73220356	5 x 0.25	800	200	5.3	20
73220357	5 x 0.25	1200	300	5.3	20
73220358	5 x 0.25	1600	400	5.3	20
73220359	5 x 0.25	2000	500	5.3	20
73220360	6 x 0.25	400	100	5.4	20
73220361	6 x 0.25	800	200	5.4	20
73220362	6 x 0.25	1200	300	5.4	20
73220363	6 x 0.25	1600	400	5.4	20
73220364	6 x 0.25	2000	500	5.4	20
73220365	7 x 0.25	400	100	6.1	21
73220366	7 x 0.25	800	200	6.1	21
73220367	7 x 0.25	1200	300	6.1	21
73220368	7 x 0.25	1600	400	6.1	21
73220369	7 x 0.25	2000	500	6.1	21
73220370	12 x 0.25	400	100	6.7	25
73220371	12 x 0.25	800	200	6.7	25
73220372	12 x 0.25	1200	300	6.7	25
73220373	12 x 0.25	1600	400	6.7	25
73220374	12 x 0.25	2000	500	6.7	25
73220375	18 x 0.25	400	100	8.5	31
73220376	18 x 0.25	800	200	8.5	31
73220377	18 x 0.25	1200	300	8.5	31
73220378	18 x 0.25	1600	400	8.5	31
73220379	18 x 0.25	2000	500	8.5	31
73220381	2 x 0.34	400	100	4.7	18
73220382	2 x 0.34	800	200	4.7	18
73220383	2 x 0.34	1200	300	4.7	18
73220384	2 x 0.34	1600	500	4.7	18
73220385	2 x 0.34	2000	500	4.7	18
73220386	3 x 0.34	400	100	5	19
73220387	3 x 0.34	800	200	5	19
73220388	3 x 0.34	1200	300	5	19
73220389	3 x 0.34	1600	400	5	19
73220390	3 x 0.34	2000	500	5	19
73220391	4 x 0.34	400	100	5.4	20
73220392	4 x 0.34	800	200	5.4	20
73220393	4 x 0.34	1200	300	5.4	20
73220394	4 x 0.34	1600	400	5.4	20
73220395	4 x 0.34	2000	500	5.4	20
73220396	5 x 0.34	400	100	5.9	21
73220397	5 x 0.34	800	200	5.9	21
73220398	5 x 0.34	1200	300	5.9	21
73220399	5 x 0.34	1600	400	5.9	21
73220400	5 x 0.34	2000	500	5.9	21
73220401	7 x 0.34	400	100	6.8	25
73220402	7 x 0.34	800	200	6.8	25
73220403	7 x 0.34	1200	300	6.8	25
73220404	7 x 0.34	1600	400	6.8	25
73220405	7 x 0.34	2000	500	6.8	25
73220406	10 x 0.34	400	100	8.5	30
73220407	10 x 0.34	800	200	8.5	30
73220408	10 x 0.34	1200	300	8.5	30
73220409	10 x 0.34	1600	400	8.5	30
73220410	10 x 0.34	2000	500	8.5	30
73220411	14 x 0.34	400	100	8.6	31
73220412	14 x 0.34	800	200	8.6	31
73220413	14 x 0.34	1200	300	8.6	31
73220414	14 x 0.34	1600	400	8.6	31
73220415	14 x 0.34	2000	500	8.6	31
73220416	18 x 0.34	400	100	9.7	33
73220417	18 x 0.34	800	200	9.7	33
73220418	18 x 0.34	1200	300	9.7	33
73220419	18 x 0.34	1600	400	9.7	33
73220420	18 x 0.34	2000	500	9.7	33

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

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

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

Versions without the mandatory LAPP designation, but with other solid lengths, end lengths and end forms available on request

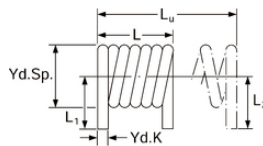
Accessories

- SKINTOP® CLICK refer to page 682

UNITRONIC® PUR S 17

Spiralkabel med PUR-isolerade ledare och svart PUR-mantel

Mycket mjuk och flexibel spiralkabel med superfintrådiga ledare. Resistent mot oljor och kemikalier samt hydrolys och mikrober. Beställ direkt i vår webshop!



L = Spirallängd, vilande
 Lu = Spirallängd, utdragen
 L1, L2 = Rak längd=200 mm
 Yd K = Ytterdiameter kabel
 Yd Sp = Ytterdiameter spiral



Lämplig för användning utomhus



Halogenfri



Köldbeständig



Mekanisk resistens



Oljeresistent

Fördelar

Robust och tålig spiralkabel

Mycket god flexibilitet

Köldflexibel ner till -40 °C

Mycket mjuk och flexibel tack vare superfintrådiga ledare

Utdragbar 4 gånger vilande längd

Användningsområden

Krävande industrimiljöer

Utomhusmiljöer

Produktegenskaper

Resistent mot mineralbaserade oljor, hydrauloljor, diesel, smörjmedel och många kemikalier

UV-beständig

Senaste uppdatering (25.06.2020)

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Produktansvar <http://se.lappgroup.com>

Du kan hitta den aktuella tekniska data i motsvarande datablad.

PN 0456 / 02_03.16

UNITRONIC® PUR S 17

Resistent mot hydrolys och mikrober
Halogenfri
Nötningsbeständig mantel

Design/Utförande

Mantel: PUR, svart blank
Ledarisolering: PUR
Superfintrådiga ledare, Cu=0,07mm
Siffermärkta alternativt färgmärkta ledare

Övrigt

Levereras även i utförande enligt kundspecifikation

Tekniska data

Ledaridentifikation:	Enligt DIN 47100
Drifttoppspänning (ej för starkström):	250 V
Isolationsmotstånd:	>150 MOhm x cm
Ledaruppbyggnad:	Superfintrådiga 0,07 mm enl VDE 0295, klass 6
Material:	Ledarisolering och mantel PUR (11Y)
Märkspänning:	300/500 V
Provspänning:	1500 V
Temperaturområde:	Flexibel: -40°C till +80°C

Observera

Priser som visas i artikeltabeller innan du loggar in är bruttopriser. Exklusive koppartillägg för kabel. Ditt nettopris visas först efter inloggning i Kassan.

Detaljerad information om det totala priset inkl. fraktkostnad samt eventuella tillägg och avgifter visas först i Kassan i steget Prisinformation.

Samtliga mått är ungefärliga. Rätten till ändringar förbehålles.

UNITRONIC® PUR S 17

Art nr	Antal ledare x yfa (mm ²)	L (mm)	Lu (mm)	Yd Sp (mm)	Yd K (mm)
83200184	5 x 0,14	200	800	16	4
83200324	5 x 0,14	300	1200	16	4
83200524	5 x 0,14	400	1600	16	4
83200624	5 x 0,14	500	2000	16	4
83200926	5 x 0,14	700	2800	16	4
83201124	5 x 0,14	800	3200	16	4
83201374	5 x 0,14	1000	4000	16	4
83201704	5 x 0,14	1500	6000	16	4
83201724	5 x 0,14	2000	8000	16	4
83200185	6 x 0,14	200	800	19	4,5
83200325	6 x 0,14	300	1200	19	4,5
83200525	6 x 0,14	400	1600	19	4,5
83200625	6 x 0,14	500	2000	19	4,5
83200925	6 x 0,14	700	2800	19	4,5
83201125	6 x 0,14	800	3200	19	4,5
83201375	6 x 0,14	1000	4000	19	4,5
83201705	6 x 0,14	1500	6000	19	4,5
83201725	6 x 0,14	2000	8000	19	4,5
83200187	8 X 0,14	200	800	21	5,3
83200327	8 X 0,14	300	1200	21	5,3
83200527	8 X 0,14	400	1600	21	5,3
83200627	8 X 0,14	500	2000	21	5,3
83200927	8 X 0,14	700	2800	21	5,3
83201127	8 X 0,14	800	3200	21	5,3
83201377	8 X 0,14	1000	4000	21	5,3
83201706	8 X 0,14	1500	6000	21	5,3
83201726	8 X 0,14	2000	8000	21	5,3
83200189	10 x 0,14	200	800	24	6
83200329	10 x 0,14	300	1200	24	6
83200529	10 x 0,14	400	1600	24	6
83200629	10 x 0,14	500	2000	24	6
83200929	10 x 0,14	700	2800	24	6
83201129	10 x 0,14	800	3200	24	6
83201379	10 x 0,14	1000	4000	24	6
83201707	10 x 0,14	1500	6000	24	6

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Art nr	Antal ledare x y/a (mm ²)	L (mm)	Lu (mm)	Yd Sp (mm)	Yd K (mm)
83201727	10 x 0,14	2000	8000	24	6
83200211	2 x 0,25	200	800	15	3,6
83200351	2 x 0,25	300	1200	15	3,6
83200551	2 x 0,25	400	1600	15	3,6
83200651	2 x 0,25	500	2000	15	3,6
83200951	2 x 0,25	700	2800	15	3,6
83201151	2 x 0,25	800	3200	15	3,6
83201389	2 x 0,25	1000	4000	15	3,6
83201708	2 x 0,25	1500	6000	15	3,6
83201728	2 x 0,25	2000	8000	15	3,6
83200212	3 x 0,25	200	800	16	3,8
83200352	3 x 0,25	300	1200	16	3,8
83200552	3 x 0,25	400	1600	16	3,8
83200652	3 x 0,25	500	2000	16	3,8
83200952	3 x 0,25	700	2800	16	3,8
83201152	3 x 0,25	800	3200	16	3,8
83201390	3 x 0,25	1000	4000	16	3,8
83201709	3 x 0,25	1500	6000	16	3,8
83201729	3 x 0,25	2000	8000	16	3,8
83200213	4 x 0,25	200	800	17	4,1
83200353	4 x 0,25	300	1200	17	4,1
83200553	4 x 0,25	400	1600	17	4,1
83200653	4 x 0,25	500	2000	17	4,1
83200953	4 x 0,25	700	2800	17	4,1
83201153	4 x 0,25	800	3200	17	4,1
83201391	4 x 0,25	1000	4000	17	4,1
83201710	4 x 0,25	1500	6000	17	4,1
83201730	4 x 0,25	2000	8000	17	4,1
83200214	5 x 0,25	200	800	20	4,7
83200354	5 x 0,25	300	1200	20	4,7
83200554	5 x 0,25	400	1600	20	4,7
83200654	5 x 0,25	500	2000	20	4,7
83200954	5 x 0,25	700	2800	20	4,7
83201154	5 x 0,25	800	3200	20	4,7
83201392	5 x 0,25	1000	4000	20	4,7

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UNITRONIC® PUR S 17

Art nr	Antal ledare x yfa (mm ²)	L (mm)	Lu (mm)	Yd Sp (mm)	Yd K (mm)
83201711	5 x 0,25	1500	6000	20	4,7
83201731	5 x 0,25	2000	8000	20	4,7
83200217	8 x 0,25	200	800	24	6,1
83200357	8 x 0,25	300	1200	24	6,1
83200557	8 x 0,25	400	1600	24	6,1
83200657	8 x 0,25	500	2000	24	6,1
83200957	8 x 0,25	700	2800	24	6,1
83201157	8 x 0,25	800	3200	24	6,1
83201395	8 x 0,25	1000	4000	24	6,1
83201712	8 x 0,25	1500	6000	24	6,1
83201732	8 x 0,25	2000	8000	24	6,1
83200226	16 x 0,25	200	800	28	7,3
83200366	16 x 0,25	300	1200	28	7,3
83200566	16 x 0,25	400	1600	28	7,3
83200666	16 x 0,25	500	2000	28	7,3
83200966	16 x 0,25	700	2800	28	7,3
83201166	16 x 0,25	800	3200	28	7,3
83201466	16 x 0,25	1000	4000	28	7,3
83201716	16 x 0,25	1500	6000	28	7,3
83201736	16 x 0,25	2000	8000	28	7,3

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