

ÖLFLEX® INSTRUM 164 H
Overall screened instrumentation cable
CU/LSZH/OS/LSZH



Info

RM9XOHM 1 300 V
EN 50288-7

Benefits

- Sunlight resistant
- Hydrocarbon and Chemical resistant
- Halogen free
- Low smoke
- Fire behaviour
- Oil resistant

Product features

Twisted pair or triad signal cable, overall screened, LSZH insulated and LSZH jacketed

Norm references / Approvals

- **Hydrocarbon & Oil resistance**
CEI 20-34/0
- **Smoke**
IEC 61034-1 and 2
- **Halogen acid gas**
IEC 60754-1 and 2
- **Fire behaviour**
IEC 60332-1-2
IEC 60332-3-22 (Cat. A)

Design

- **Conductor:** Stranded Annealed Copper
- **Core insulation:** LSZH
- **Screen:** OS Aluminum/PET + TC Drain wire
- **Outer sheath:** LSZH, black

Technical data

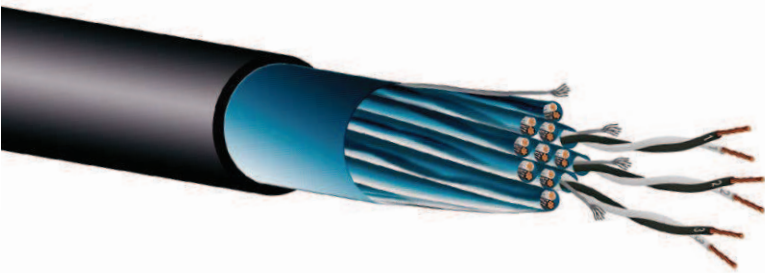
- Core identification code:**
Pairs are black & white with printed numbers
Triads are black, white, red with printed numbers
- Insulation resistance:**
100 MOhm x km
- Conductor stranding:**
Class 2 IEC 60228
- Nominal Voltage Uo/U:**
300/300 V
- Test voltage:**
C/C 1500 V x 1 minute
- Temperature range:**
during operation: -30° to +70°C
during installation: -5° to +50°C
- Minimum Bending Radius:**
8 x Outer Diameter

Number cores and mm ² per conductor	Approx. Outer Diameter (mm)	Copper index (kg/km)	Approx. Weight (kg/km)
ÖLFLEX® INSTRUM 164 H			
1x2x0,5	5,1	15,1	36
2x2x0,5	7,5	25,4	68
6x2x0,5	10,5	66,7	142
10x2x0,5	13,4	108,0	216
12x2x0,5	13,9	128,7	239
16x2x0,5	15,6	170,0	313
20x2x0,5	17,5	211,3	396
24x2x0,5	19,4	252,6	456
30x2x0,5	20,7	314,6	550
1x3x0,5	5,4	20,2	44
3x3x0,5	9,0	51,2	106
6x3x0,5	11,8	97,7	196
10x3x0,5	15,2	159,7	301
12x3x0,5	15,7	190,6	337
1x2x0,75	5,9	20,2	47
2x2x0,75	8,4	35,7	87
6x2x0,75	12,1	97,5	193
10x2x0,75	15,5	159,4	295
12x2x0,75	16,0	190,3	329
16x2x0,75	18,0	252,2	431
20x2x0,75	20,2	314,0	546
24x2x0,75	22,4	375,9	630
30x2x0,75	23,9	468,7	760
1x3x0,75	6,2	27,9	58
3x3x0,75	10,1	74,3	139
6x3x0,75	13,4	143,9	261
10x3x0,75	17,5	236,7	414
12x3x0,75	18,1	283,1	466

Number cores and mm ² per conductor	Approx. Outer Diameter (mm)	Copper index (kg/km)	Approx. Weight (kg/km)
ÖLFLEX® INSTRUM 164 H			
1x2x1	6,4	25,6	55
2x2x1	9,4	46,5	109
6x2x1	13,2	130,1	238
10x2x1	17,2	213,6	375
12x2x1	17,8	255,4	419
16x2x1	19,7	338,9	540
20x2x1	22,2	422,5	684
24x2x1	24,8	506,0	804
30x2x1	26,5	631,4	972
1x3x1	6,7	36,1	69
3x3x1	11,0	98,7	170
6x3x1	14,9	192,7	333
10x3x1	19,2	318,0	518
12x3x1	20,1	380,7	595
1x2x1,5	7,2	36,5	71
2x2x1,5	10,8	68,2	145
6x2x1,5	15,5	195,1	336
10x2x1,5	20,2	322,1	529
12x2x1,5	20,9	385,5	594
16x2x1,5	23,4	512,5	782
20x2x1,5	26,3	639,4	989
24x2x1,5	29,4	766,3	1.161
30x2x1,5	31,4	956,7	1.404
1x3x1,5	7,6	52,3	92
3x3x1,5	13,0	147,5	240
6x3x1,5	17,5	290,3	472
10x3x1,5	22,6	480,7	738
12x3x1,5	23,6	575,9	850

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

AVAILABLE ALSO IN: Conductor Class 5, Tinned conductor, other colors, Arctic version with operation between -60°C and +70°C



ÖLFLEX® INSTRUM 165 H

Individual and overall screened instrumentation cable
CU/LSZH/IS/OS/LSZH



Info

**RM9XHOHM 1 300 V
EN 50288-7**

Benefits

- Sunlight resistant
- Hydrocarbon and Chemical resistant
- Halogen free
- Low smoke
- Fire behaviour
- Oil resistant

Product features

Twisted pair or triad signal cable, individual and overall screened, LSZH insulated and LSZH jacketed

Norm references / Approvals

- **Hydrocarbon & Oil resistance**
CEI 20-34/0
- **Smoke**
IEC 61034-1 and 2
- **Halogen acid gas**
IEC 60754-1 and 2
- **Fire behaviour**
IEC 60332-1-2
IEC 60332-3-22 (Cat. A)

Design

- **Conductor:** Stranded Annealed Copper
- **Core insulation:** LSZH
- **Screen:** IS/OS Aluminum/PET + TC Drain wire
- **Outer sheath:** LSZH, black

Technical data



Core identification code:
Pairs are black & white with printed numbers
Triads are black, white, red with printed numbers



Insulation resistance:
100 MOhm x km



Conductor stranding:
Class 2 IEC 60228



Nominal Voltage Uo/U:
300/300 V



Test voltage:
C/C 1500 V x 1 minute



Temperature range:
during operation: -30° to +70°C
during installation: -5° to +50°C



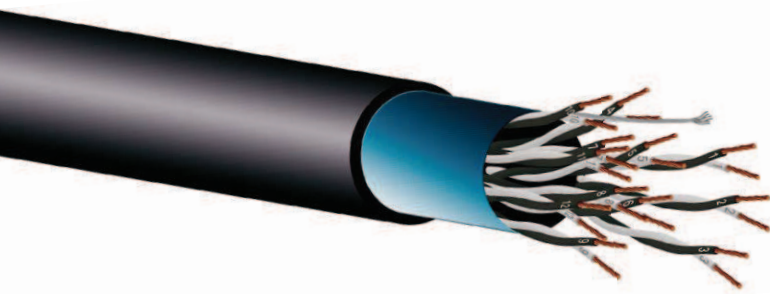
Minimum Bending Radius:
8 x Outer Diameter

Number cores and mm ² per conductor	Approx. Outer Diameter (mm)	Copper index (kg/km)	Approx. Weight (kg/km)
ÖLFLEX® INSTRUM 165 H			
2x2x0,5	8,3	35,7	86
6x2x0,5	11,8	97,7	195
10x2x0,5	15,2	159,7	300
12x2x0,5	15,7	190,6	337
16x2x0,5	17,6	252,6	442
20x2x0,5	19,5	314,6	547
24x2x0,5	21,9	376,6	646
30x2x0,5	23,3	469,5	783
3x3x0,5	9,9	66,7	132
6x3x0,5	13,1	128,7	246
10x3x0,5	16,9	211,3	382
12x3x0,5	17,7	252,6	440
2x2x0,75	9,5	46,0	110
6x2x0,75	13,3	128,5	244
10x2x0,75	17,4	211,0	386
12x2x0,75	18,0	252,3	434
16x2x0,75	20,1	334,8	569
20x2x0,75	22,4	417,3	706
24x2x0,75	25,1	499,8	832
30x2x0,75	26,8	623,6	1.008
3x3x0,75	11,1	89,8	166
6x3x0,75	15,0	174,9	321
10x3x0,75	19,4	288,3	501
12x3x0,75	20,3	345,1	577

Number cores and mm ² per conductor	Approx. Outer Diameter (mm)	Copper index (kg/km)	Approx. Weight (kg/km)
ÖLFLEX® INSTRUM 165 H			
2x2x1	10,3	56,8	130
6x2x1	14,8	161,0	299
10x2x1	19,0	265,3	462
12x2x1	19,7	317,4	520
16x2x1	22,1	421,6	684
20x2x1	24,8	525,8	864
24x2x1	27,8	630,0	1.017
30x2x1	29,6	786,3	1.233
3x3x1	12,4	114,2	205
6x3x1	16,4	223,7	389
10x3x1	21,5	369,7	619
12x3x1	22,2	442,7	702
2x2x1,5	12,0	78,5	173
6x2x1,5	17,2	226,1	403
10x2x1,5	22,2	373,7	625
12x2x1,5	23,2	447,5	716
16x2x1,5	26,0	595,1	940
20x2x1,5	29,2	742,7	1.186
24x2x1,5	32,7	890,3	1.394
30x2x1,5	34,8	1111,6	1.689
3x3x1,5	14,4	163,0	279
6x3x1,5	19,2	321,3	534
10x3x1,5	25,1	532,4	849
12x3x1,5	26,2	637,9	979

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
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AVAILABLE ALSO IN: Conductor class 5, timed conductor, other colors, Arctic version with operation between -60°C and +70°C



ÖLFLEX® INSTRUM 166 H
Overall screened instrumentation cable
CU/LSZH/OS/LSZH



Info

**RM9XOHM 1FM 1 300 V
EN 50288-7**

Benefits

- Sunlight resistant
- Hydrocarbon and Chemical resistant
- Halogen free
- Low smoke
- Fire behaviour
- Oil resistant

Product features

Twisted pair or triad signal cable, overall screened, LSZH insulated and LSZH jacketed

Norm references / Approvals

- **Hydrocarbon & Oil resistance**
CEI 20-34/0
- **Smoke**
IEC 61034-1 and 2
- **Halogen acid gas**
IEC 60754-1 and 2
- **Fire behaviour**
IEC 60332-1-2
IEC 60332-3-22 (Cat. A)

Design

- **Conductor:** Stranded Annealed Copper
- **Core insulation:** LSZH
- **Screen:** OS Aluminum/PET + TC Drain wire
- **Outer sheath:** LSZH, black

Technical data

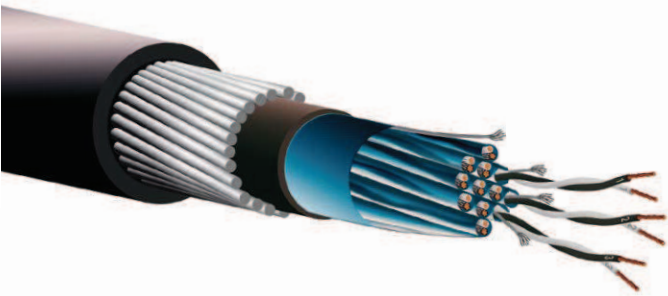
- Core identification code:**
Pairs are black & white with printed numbers
Triads are black, white, red with printed numbers
- Insulation resistance:**
100 MOhm x km
- Conductor stranding:**
Class 2 IEC 60228
- Nominal Voltage Uo/U:**
300/300 V
- Test voltage:**
C/C 1500 V x 1 minute
- Temperature range:**
during operation: -30° to +70°C
during installation: -5° to +50°C
- Minimum Bending Radius:**
8 x Outer Diameter

Number cores and mm ² per conductor	Approx. Outer Diameter (mm)	Copper index (kg/km)	Approx. Weight (kg/km)
ÖLFLEX® INSTRUM 166 H			
1x2x0,5	5,1	15,1	36
2x2x0,5	7,5	25,4	68
6x2x0,5	10,5	66,7	142
10x2x0,5	13,4	108,0	216
12x2x0,5	13,9	128,7	239
16x2x0,5	15,6	170,0	313
20x2x0,5	17,5	211,3	396
24x2x0,5	19,4	252,6	456
30x2x0,5	20,7	314,6	550
1x3x0,5	5,4	20,2	44
3x3x0,5	9,0	51,2	106
6x3x0,5	11,8	97,7	196
10x3x0,5	15,2	159,7	301
12x3x0,5	15,7	190,6	337
1x2x0,75	5,9	20,2	47
2x2x0,75	8,4	35,7	87
6x2x0,75	12,1	97,5	193
10x2x0,75	15,5	159,4	295
12x2x0,75	16,0	190,3	329
16x2x0,75	18,0	252,2	431
20x2x0,75	20,2	314,0	546
24x2x0,75	22,4	375,9	630
30x2x0,75	23,9	468,7	760
1x3x0,75	6,2	27,9	58
3x3x0,75	10,1	74,3	139
6x3x0,75	13,4	143,9	261
10x3x0,75	17,5	236,7	414
12x3x0,75	18,1	283,1	466

Number cores and mm ² per conductor	Approx. Outer Diameter (mm)	Copper index (kg/km)	Approx. Weight (kg/km)
ÖLFLEX® INSTRUM 166 H			
1x2x1	6,4	25,6	55
2x2x1	9,4	46,5	109
6x2x1	13,2	130,1	238
10x2x1	17,2	213,6	375
12x2x1	17,8	255,4	419
16x2x1	19,7	338,9	540
20x2x1	22,2	422,5	684
24x2x1	24,8	506,0	804
30x2x1	26,5	631,4	972
1x3x1	6,7	36,1	69
3x3x1	11,0	98,7	170
6x3x1	14,9	192,7	333
10x3x1	19,2	318,0	518
12x3x1	20,1	380,7	595
1x2x1,5	7,2	36,5	71
2x2x1,5	10,8	68,2	145
6x2x1,5	15,5	195,1	336
10x2x1,5	20,2	322,1	529
12x2x1,5	20,9	385,5	594
16x2x1,5	23,4	512,5	782
20x2x1,5	26,3	639,4	989
24x2x1,5	29,4	766,3	1.161
30x2x1,5	31,4	956,7	1.404
1x3x1,5	7,6	52,3	92
3x3x1,5	13,0	147,5	240
6x3x1,5	17,5	290,3	472
10x3x1,5	22,6	480,7	738
12x3x1,5	23,6	575,9	850

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

AVAILABLE ALSO IN: Conductor Class 5, Tinned conductor, Armour SWB, DSTA, other colors, Arctic version with operation between -60°C and +70°C



ÖLFLEX® INSTRUM SWA 167 H
Armoured, Individual and Overall screened instrumentation cable
CU/LSZH/IS/OS/LSZH/SWA/LSZH



Info

**RM9XHOHM1FM1 300 V
EN 50288-7**

Benefits

- Sunlight resistant
- Hydrocarbon and Chemical resistant
- Halogen free
- Low smoke
- Fire behaviour
- Oil resistant

Product features

Armoured, twisted pair or triad signal cable, individual and overall screened, LSZH insulated and LSZH jacketed

Norm references / Approvals

- **Hydrocarbon & Oil resistance**
CEI 20-34/0
- **Smoke**
IEC 61034-1 and 2
- **Halogen acid gas**
IEC 60754-1 and 2
- **Fire behaviour**
IEC 60332-1-2
IEC 60332-3-22 (Cat. A)

Design

- **Conductor:** Stranded Annealed Copper
- **Core insulation:** LSZH
- **Screen:** IS/OS Aluminum/PET + TC Drain wire
- **Inner sheath:** LSZH
- **Armour:** Galvanized Steel Wire
- **Outer sheath:** LSZH, black

Technical data

- Core identification code:**
Pairs are black & white with printed numbers
Triads are black, white, red with printed numbers
- Insulation resistance:**
100 MOhm x km
- Conductor stranding:**
Class 2 IEC 60228
- Nominal Voltage Uo/U:**
300/300 V
- Test voltage:**
C/C 1500 V x 1 minute
- Temperature range:**
during operation: -30° to +70°C
during installation: -5° to +50°C
- Minimum Bending Radius:**
10 x Outer Diameter

Number cores and mm ² per conductor	Approx. Outer Diameter (mm)	Copper index (kg/km)	Approx. Weight (kg/km)
ÖLFLEX® INSTRUM SWA 167 H			
2x2x0,5	13,1	35,7	302
6x2x0,5	16,9	97,7	495
10x2x0,5	20,4	159,7	684
12x2x0,5	20,9	190,6	732
16x2x0,5	23,5	252,6	1.001
20x2x0,5	25,7	314,6	1.175
24x2x0,5	28,3	376,6	1.354
30x2x0,5	29,8	469,5	1.534
3x3x0,5	14,7	66,7	383
6x3x0,5	18,1	128,7	574
10x3x0,5	22,9	211,3	922
12x3x0,5	23,6	252,6	1.003
2x2x0,75	14,3	46,0	352
6x2x0,75	18,4	128,5	578
10x2x0,75	23,4	211,0	941
12x2x0,75	24,0	252,3	1.005
16x2x0,75	26,3	334,8	1.214
20x2x0,75	28,8	417,3	1.431
24x2x0,75	31,5	499,8	1.635
30x2x0,75	34,1	623,6	2.058
3x3x0,75	16,0	89,8	444
6x3x0,75	20,3	174,9	702
10x3x0,75	25,6	288,3	1.124
12x3x0,75	26,5	345,1	1.225

Number cores and mm ² per conductor	Approx. Outer Diameter (mm)	Copper index (kg/km)	Approx. Weight (kg/km)
ÖLFLEX® INSTRUM SWA 167 H			
2x2x1	15,1	56,8	389
6x2x1	19,8	161,0	664
10x2x1	25,2	265,3	1.075
12x2x1	25,9	317,4	1.152
16x2x1	28,5	421,6	1.399
20x2x1	31,2	525,8	1.659
24x2x1	35,1	630,0	2.101
30x2x1	37,2	786,3	2.401
3x3x1	17,4	114,2	517
6x3x1	22,4	223,7	917
10x3x1	27,7	369,7	1.303
12x3x1	28,6	442,7	1.421
2x2x1,5	17,0	78,5	478
6x2x1,5	23,2	226,1	953
10x2x1,5	28,6	373,7	1.344
12x2x1,5	29,6	447,5	1.463
16x2x1,5	32,6	595,1	1.785
20x2x1,5	36,8	742,7	2.340
24x2x1,5	40,4	890,3	2.691
30x2x1,5	42,6	1111,6	3.065
3x3x1,5	19,4	163,0	636
6x3x1,5	25,4	321,3	1.152
10x3x1,5	31,5	532,4	1.652
12x3x1,5	32,8	637,9	1.828

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AVAILABLE ALSO IN: Conductor Class 5, Tinned conductor, Armour SWB, DSTA, other colors, Arctic version with operation between -60°C and +70°C