



ÖLFLEX® INSTRUM SWA AL/HDPE/PA 182

Armoured, AL/HDPE/PA jacketed, Overall screened instrumentation cable CU/XLPE/AL/HDPE/PA/SWA/PVC



Info

**RE4XOH5ER4FR 300 V
EN 50288-7**

Benefits

- Sunlight resistant
- Hydrocarbon and Chemical resistant
- Fire behaviour
- Oil resistant

Product features

Armoured, AL/HDPE/PA jacketed, twisted pair or triad signal cable, overall screened, XLPE insulated and PVC jacketed

Norm references / Approvals

- **Hydrocarbon & Oil resistance**
CEI 20-34/0
- **Halogen acid gas**
IEC 60754-1 (max 20%)
- **Fire behaviour**
IEC 60332-1-2

Design

- **Conductor:** Stranded Annealed Copper
- **Core insulation:** XLPE
- **Screen:** OS Aluminum longitudinal tape (AL) + TC Drain wire
- **Chemical Barrier:** AL/HDPE/PA
- **Armour:** Galvanized Steel Wire
- **Outer sheath:** PVC, black

Technical data

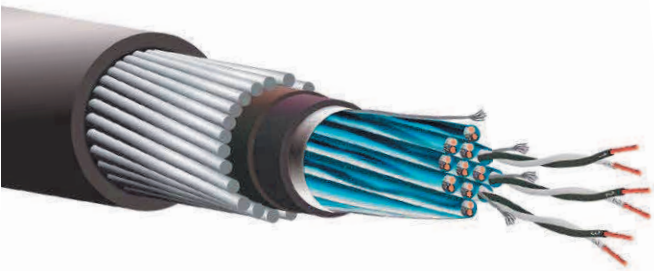
- Core identification code:**
Pairs are black & white with printed numbers
Triads are black, white, red with printed numbers
- Insulation resistance:**
5000 MOhm x km
- Conductor stranding:**
Class 2 IEC 60228
- Nominal Voltage Uo/U:**
300/300 V
- Test voltage:**
C/C 1500 V x 1 minute
- Temperature range:**
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 AL/HDPE/PA 182			
1x2x0,5	11,6	15,1	229
2x2x0,5	13,9	25,4	313
6x2x0,5	16,9	66,7	447
10x2x0,5	19,8	108,0	581
12x2x0,5	20,5	128,7	621
16x2x0,5	22,9	170,0	844
20x2x0,5	25,1	211,3	986
24x2x0,5	26,9	252,6	1.094
30x2x0,5	28,5	314,6	1.227
1x3x0,5	11,8	20,2	242
3x3x0,5	15,2	51,2	372
6x3x0,5	18,2	97,7	526
10x3x0,5	21,8	159,7	706
12x3x0,5	23,0	190,6	868
1x2x0,75	12,3	20,2	256
2x2x0,75	14,8	35,7	352
6x2x0,75	18,5	97,5	531
10x2x0,75	22,9	159,4	829
12x2x0,75	23,4	190,3	873
16x2x0,75	25,5	252,2	1.033
20x2x0,75	27,8	314,0	1.202
24x2x0,75	30,1	375,9	1.355
30x2x0,75	31,7	468,7	1.514
1x3x0,75	12,6	27,9	273
3x3x0,75	16,5	74,3	436
6x3x0,75	19,8	143,9	623
10x3x0,75	25,1	236,7	1.005
12x3x0,75	25,7	283,1	1.068

Number cores and mm ² per conductor	Approx. Outer Diameter (mm)	Copper index (kg/km)	Approx. Weight (kg/km)
ÖLFLEX® INSTRUM SWA AL/HDPE/PA 182			
1x2x1	12,8	25,6	274
2x2x1	15,6	46,5	387
6x2x1	19,6	130,1	600
10x2x1	24,8	213,6	964
12x2x1	25,4	255,4	1.020
16x2x1	27,3	338,9	1.188
20x2x1	30,0	422,5	1.406
24x2x1	32,8	506,0	1.604
30x2x1	35,3	631,4	1.990
1x3x1	13,1	36,1	296
3x3x1	17,5	98,7	488
6x3x1	21,5	192,7	734
10x3x1	26,8	318,0	1.153
12x3x1	27,7	380,7	1.245
1x2x1,5	13,6	36,5	309
2x2x1,5	17,2	68,2	461
6x2x1,5	22,8	195,1	870
10x2x1,5	27,8	322,1	1.193
12x2x1,5	28,7	385,5	1.285
16x2x1,5	31,2	512,5	1.529
20x2x1,5	35,0	639,4	2.008
24x2x1,5	38,3	766,3	2.288
30x2x1,5	40,3	956,7	2.578
1x3x1,5	14,1	52,3	338
3x3x1,5	19,4	147,5	596
6x3x1,5	25,1	290,3	1.063
10x3x1,5	30,4	480,7	1.469
12x3x1,5	31,4	575,9	1.595

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 copper conductor, other colors



ÖLFLEX® INSTRUM SWA AL/HDPE/PA 183

Armoured, AL/HDPE/PA jacketed,
Individual and Overall screened instrumentation cable
CU/XLPE/IS/AL/HDPE/PA/SWA/PVC



Info

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- **Core insulation:** XLPE
- **Screen:** IS Aluminum/PET + TC Drain wire, OS Aluminum longitudinal tape (AL) + TC Drain wire
- **Chemical Barrier:** AL/HDPE/PA
- **Armour:** Galvanized Steel Wire
- **Outer sheath:** PVC, black

Technical data

- Core identification code:**
Pairs are black & white with printed numbers
Triads are black, white, red with printed numbers
- Insulation resistance:**
5000 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 AL/HDPE/PA 183			
2x2x0,5	14,7	35,7	349
6x2x0,5	18,2	97,7	530
10x2x0,5	21,8	159,7	714
12x2x0,5	23,0	190,6	878
16x2x0,5	25,1	252,6	1.040
20x2x0,5	27,1	314,6	1.197
24x2x0,5	29,6	376,6	1.368
30x2x0,5	31,1	469,5	1.535
3x3x0,5	16,3	66,7	426
6x3x0,5	19,5	128,7	605
10x3x0,5	24,5	211,3	964
12x3x0,5	25,2	252,6	1.038
2x2x0,75	15,7	46,0	391
6x2x0,75	19,7	128,5	611
10x2x0,75	25,0	211,0	984
12x2x0,75	25,5	252,3	1.045
16x2x0,75	27,7	334,8	1.232
20x2x0,75	30,2	417,3	1.442
24x2x0,75	33,1	499,8	1.650
30x2x0,75	35,5	623,6	2.049
3x3x0,75	17,6	89,8	487
6x3x0,75	21,7	174,9	729
10x3x0,75	27,0	288,3	1.147
12x3x0,75	27,8	345,1	1.239

Number cores and mm ² per conductor	Approx. Outer Diameter (mm)	Copper index (kg/km)	Approx. Weight (kg/km)
ÖLFLEX® INSTRUM SWA AL/HDPE/PA 183			
2x2x1	16,7	56,8	436
6x2x1	21,4	161,0	704
10x2x1	26,6	265,3	1.105
12x2x1	27,3	317,4	1.177
16x2x1	29,9	421,6	1.411
20x2x1	32,8	525,8	1.674
24x2x1	36,7	630,0	2.113
30x2x1	38,6	786,3	2.376
3x3x1	18,8	114,2	551
6x3x1	23,8	223,7	949
10x3x1	29,3	369,7	1.331
12x3x1	30,0	442,7	1.428
2x2x1,5	18,4	78,5	515
6x2x1,5	24,8	226,1	996
10x2x1,5	30,0	373,7	1.363
12x2x1,5	31,0	447,5	1.472
16x2x1,5	34,7	595,1	1.962
20x2x1,5	38,2	742,7	2.323
24x2x1,5	41,8	890,3	2.654
30x2x1,5	44,2	1111,6	3.022
3x3x1,5	21,0	163,0	675
6x3x1,5	26,8	321,3	1.176
10x3x1,5	33,1	532,4	1.666
12x3x1,5	34,9	637,9	1.999

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AVAILABLE ALSO IN: Conductor Class 5, Tinned copper conductor, other colors