



ÖLFLEX® INSTRUM SWA 177 IS

Armoured individual and overall screened instrumentation cable for intrinsically safe circuits
CU/XLPE/IS/OS/PVC/SWA/PVC



Info

**RE4XHOHRFR 300 V
EN 50288-7**

Benefits

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

Product features

Armoured twisted pair or triad signal cable, individual and 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
IEC 60332-3-22 (Cat. A)

Design

- **Conductor:** Stranded Annealed Copper
- **Core insulation:** XLPE
- **Screen:** IS/OS Aluminum/PET + TC Drain wire
- **Inner sheath:** PVC, blue RAL 5015
- **Armour:** Galvanized Steel Wire
- **Outer sheath:** PVC, blue RAL 5015

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 177 IS			
2x2x0,5	13,1	35,7	298
6x2x0,5	16,9	97,7	485
10x2x0,5	20,4	159,7	667
12x2x0,5	20,9	190,6	712
16x2x0,5	23,5	252,6	975
20x2x0,5	25,7	314,6	1.142
24x2x0,5	28,3	376,6	1.314
30x2x0,5	29,8	469,5	1.484
3x3x0,5	14,7	66,7	375
6x3x0,5	18,1	128,7	559
10x3x0,5	22,9	211,3	897
12x3x0,5	23,6	252,6	972
2x2x0,75	14,3	46,0	348
6x2x0,75	18,4	128,5	565
10x2x0,75	23,4	211,0	919
12x2x0,75	24,0	252,3	979
16x2x0,75	26,3	334,8	1.179
20x2x0,75	28,8	417,3	1.388
24x2x0,75	31,5	499,8	1.583
30x2x0,75	34,1	623,6	1.993
3x3x0,75	16,0	89,8	434
6x3x0,75	20,3	174,9	683
10x3x0,75	25,6	288,3	1.092
12x3x0,75	26,5	345,1	1.186

Number cores and mm ² per conductor	Approx. Outer Diameter (mm)	Copper index (kg/km)	Approx. Weight (kg/km)
ÖLFLEX® INSTRUM SWA 177 IS			
2x2x1	15,1	56,8	384
6x2x1	19,8	161,0	648
10x2x1	25,2	265,3	1.050
12x2x1	25,9	317,4	1.121
16x2x1	28,5	421,6	1.357
20x2x1	31,2	525,8	1.607
24x2x1	35,1	630,0	2.039
30x2x1	37,2	786,3	2.323
3x3x1	17,4	114,2	506
6x3x1	22,4	223,7	894
10x3x1	27,7	369,7	1.264
12x3x1	28,6	442,7	1.374
2x2x1,5	17,0	78,5	471
6x2x1,5	23,2	226,1	931
10x2x1,5	28,6	373,7	1.308
12x2x1,5	29,6	447,5	1.421
16x2x1,5	32,6	595,1	1.729
20x2x1,5	36,8	742,7	2.270
24x2x1,5	40,4	890,3	2.607
30x2x1,5	42,6	1111,6	2.959
3x3x1,5	19,4	163,0	620
6x3x1,5	25,4	321,3	1.121
10x3x1,5	31,5	532,4	1.599
12x3x1,5	32,8	637,9	1.765

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