



ÖLFLEX® INSTRUM SWA 176 IS

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



Info

**RE4XOHRFR 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,
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:** 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 176 IS			
1x2x0,5	9,8	15,1	177
2x2x0,5	12,3	25,4	264
6x2x0,5	15,3	66,7	395
10x2x0,5	18,5	108,0	535
12x2x0,5	18,9	128,7	565
16x2x0,5	20,8	170,0	679
20x2x0,5	23,5	211,3	921
24x2x0,5	25,5	252,6	1.039
30x2x0,5	26,9	314,6	1.161
1x3x0,5	10,0	20,2	190
3x3x0,5	13,8	51,2	330
6x3x0,5	16,9	97,7	481
10x3x0,5	20,4	159,7	660
12x3x0,5	20,9	190,6	703
1x2x0,75	10,5	20,2	204
2x2x0,75	13,3	35,7	302
6x2x0,75	17,1	97,5	486
10x2x0,75	20,7	159,4	665
12x2x0,75	22,0	190,3	818
16x2x0,75	23,9	252,2	967
20x2x0,75	26,4	314,0	1.149
24x2x0,75	28,8	375,9	1.300
30x2x0,75	30,3	468,7	1.463
1x3x0,75	10,8	27,9	221
3x3x0,75	14,9	74,3	385
6x3x0,75	18,4	143,9	577
10x3x0,75	23,5	236,7	939
12x3x0,75	24,3	283,1	1.013

Number cores and mm ² per conductor	Approx. Outer Diameter (mm)	Copper index (kg/km)	Approx. Weight (kg/km)
ÖLFLEX® INSTRUM SWA 176 IS			
1x2x1	11,0	25,6	222
2x2x1	14,2	46,5	344
6x2x1	18,2	130,1	554
10x2x1	23,2	213,6	899
12x2x1	23,8	255,4	954
16x2x1	25,9	338,9	1.132
20x2x1	28,6	422,5	1.351
24x2x1	31,2	506,0	1.537
30x2x1	33,9	631,4	1.934
1x3x1	11,3	36,1	242
3x3x1	15,9	98,7	435
6x3x1	20,0	192,7	678
10x3x1	25,4	318,0	1.098
12x3x1	26,3	380,7	1.193
1x2x1,5	11,8	36,5	255
2x2x1,5	15,6	68,2	408
6x2x1,5	20,7	195,1	706
10x2x1,5	26,4	322,1	1.141
12x2x1,5	27,1	385,5	1.218
16x2x1,5	29,8	512,5	1.478
20x2x1,5	33,7	639,4	1.951
24x2x1,5	36,9	766,3	2.236
30x2x1,5	38,9	956,7	2.529
1x3x1,5	12,5	52,3	289
3x3x1,5	18,0	147,5	550
6x3x1,5	23,5	290,3	998
10x3x1,5	29,0	480,7	1.414
12x3x1,5	30,0	575,9	1.544

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