



## ÖLFLEX® INSTRUM SWA LEAD 181

Armoured, Lead jacketed,  
Individual and Overall screened instrumentation cable  
CU/XLPE/IS/OS/PVC/LC/PVC/SWA/PVC



**Info**

**RE4XHOHRLRFR 300 V  
EN 50288-7**

**Benefits**

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

**Product features**

Armoured, lead jacketed, 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, black
- **Chemical Barrier:** Lead sheath
- **Inner sheath:** PVC, black
- **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 +90°C  
during installation: -5° to +50°C



**Minimum Bending Radius:**  
15 x Outer Diameter

Number cores and mm <sup>2</sup> per conductor	Approx. Outer Diameter (mm)	Copper index (kg/km)	Approx. Weight (kg/km)
<b>ÖLFLEX® INSTRUM SWA LEAD 181</b>			
2x2x0,5	17,3	35,7	735
6x2x0,5	21,3	97,7	1.108
10x2x0,5	25,0	159,7	1.494
12x2x0,5	25,5	190,6	1.560
16x2x0,5	28,6	252,6	2.022
20x2x0,5	30,8	314,6	2.356
24x2x0,5	33,3	376,6	2.648
30x2x0,5	35,4	469,5	3.032
3x3x0,5	19,1	66,7	919
6x3x0,5	22,8	128,7	1.293
10x3x0,5	27,7	211,3	1.899
12x3x0,5	28,7	252,6	2.025
2x2x0,75	18,7	46,0	875
6x2x0,75	23,0	128,5	1.309
10x2x0,75	28,4	211,0	1.958
12x2x0,75	29,0	252,3	2.046
16x2x0,75	31,4	334,8	2.424
20x2x0,75	33,9	417,3	2.752
24x2x0,75	37,4	499,8	3.244
30x2x0,75	40,2	623,6	3.898
3x3x0,75	20,6	89,8	1.038
6x3x0,75	24,9	174,9	1.504
10x3x0,75	30,6	288,3	2.298
12x3x0,75	31,5	345,1	2.437

Number cores and mm <sup>2</sup> per conductor	Approx. Outer Diameter (mm)	Copper index (kg/km)	Approx. Weight (kg/km)
<b>ÖLFLEX® INSTRUM SWA LEAD 181</b>			
2x2x1	19,5	56,8	944
6x2x1	24,6	161,0	1.467
10x2x1	30,1	265,3	2.155
12x2x1	30,9	317,4	2.343
16x2x1	33,5	421,6	2.702
20x2x1	37,1	525,8	3.255
24x2x1	41,2	630,0	4.001
30x2x1	43,1	786,3	4.378
3x3x1	22,0	114,2	1.207
6x3x1	27,3	223,7	1.875
10x3x1	32,9	369,7	2.591
12x3x1	33,6	442,7	2.726
2x2x1,5	21,4	78,5	1.101
6x2x1,5	28,2	226,1	1.963
10x2x1,5	33,7	373,7	2.661
12x2x1,5	34,9	447,5	2.922
16x2x1,5	38,3	595,1	3.425
20x2x1,5	42,7	742,7	4.302
24x2x1,5	46,5	890,3	4.976
30x2x1,5	49,5	1111,6	5.685
3x3x1,5	24,3	163,0	1.423
6x3x1,5	30,2	321,3	2.235
10x3x1,5	37,4	532,4	3.260
12x3x1,5	38,5	637,9	3.471

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, Armour DSTA