

ÖLFLEX® INSTRUM 174 IS

Overall screened instrumentation cable
for intrinsically safe circuits
CU/XLPE/OS/PVC



Info

**RE4XOHR 300 V
EN 50288-7**

Benefits

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

Product features

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
- **Outer sheath:** PVC, blue RAL 5015

Technical data

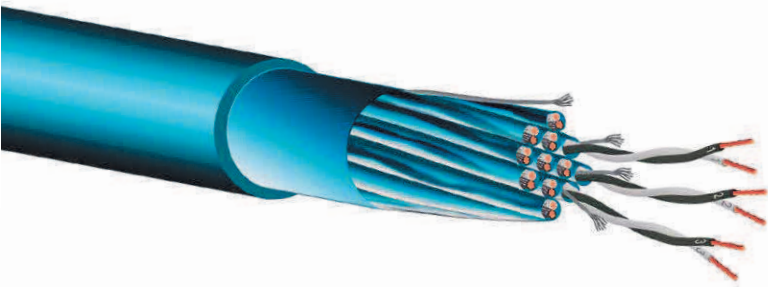
- Core identification code:**
Pairs are black & white with printed numbers
Triads are black, white, red with printed numbers
- Insulation resistance:**
5000 MOhm x km
- Conductor stranding:**
Class 2 IEC 60228
- Nominal Voltage Uo/U:**
300/300 V
- Test voltage:**
C/C 1500 V x 1 minute
- Temperature range:**
during operation: -30° to +70°C
during installation: -5° to +50°C
- Minimum Bending Radius:**
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 174 IS			
1x2x0,5	5,1	15,1	34
2x2x0,5	7,5	25,4	65
6x2x0,5	10,5	66,7	132
10x2x0,5	13,4	108,0	199
12x2x0,5	13,9	128,7	219
16x2x0,5	15,6	170,0	286
20x2x0,5	17,5	211,3	363
24x2x0,5	19,4	252,6	416
30x2x0,5	20,7	314,6	500
1x3x0,5	5,4	20,2	41
3x3x0,5	9,0	51,2	99
6x3x0,5	11,8	97,7	181
10x3x0,5	15,2	159,7	276
12x3x0,5	15,7	190,6	307
1x2x0,75	5,9	20,2	45
2x2x0,75	8,4	35,7	83
6x2x0,75	12,1	97,5	180
10x2x0,75	15,5	159,4	274
12x2x0,75	16,0	190,3	303
16x2x0,75	18,0	252,2	396
20x2x0,75	20,2	314,0	502
24x2x0,75	22,4	375,9	578
30x2x0,75	23,9	468,7	695
1x3x0,75	6,2	27,9	55
3x3x0,75	10,1	74,3	129
6x3x0,75	13,4	143,9	242
10x3x0,75	17,5	236,7	381
12x3x0,75	18,1	283,1	427

Number cores and mm ² per conductor	Approx. Outer Diameter (mm)	Copper index (kg/km)	Approx. Weight (kg/km)
ÖLFLEX® INSTRUM 174 IS			
1x2x1	6,4	25,6	52
2x2x1	9,4	46,5	104
6x2x1	13,2	130,1	223
10x2x1	17,2	213,6	349
12x2x1	17,8	255,4	388
16x2x1	19,7	338,9	499
20x2x1	22,2	422,5	633
24x2x1	24,8	506,0	742
30x2x1	26,5	631,4	894
1x3x1	6,7	36,1	65
3x3x1	11,0	98,7	159
6x3x1	14,9	192,7	309
10x3x1	19,2	318,0	479
12x3x1	20,1	380,7	549
1x2x1,5	7,2	36,5	67
2x2x1,5	10,8	68,2	138
6x2x1,5	15,5	195,1	315
10x2x1,5	20,2	322,1	494
12x2x1,5	20,9	385,5	552
16x2x1,5	23,4	512,5	725
20x2x1,5	26,3	639,4	919
24x2x1,5	29,4	766,3	1.076
30x2x1,5	31,4	956,7	1.299
1x3x1,5	7,6	52,3	87
3x3x1,5	13,0	147,5	224
6x3x1,5	17,5	290,3	440
10x3x1,5	22,6	480,7	685
12x3x1,5	23,6	575,9	786

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 175 IS
Individual and overall screened instrumentation cable
for intrinsically safe circuits
CU/XLPE/IS/OS/PVC



Info

RE4XHOHR 300 V
EN 50288-7

Benefits

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

Product features

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
- **Outer sheath:** PVC, blue RAL 5015

Technical data

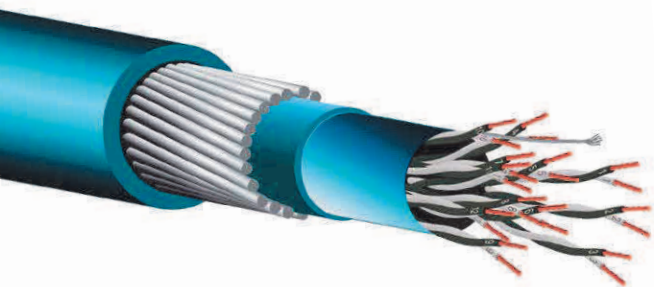
- Core identification code:**
Pairs are black & white with printed numbers
Triads are black, white, red with printed numbers
- Insulation resistance:**
5000 MOhm x km
- Conductor stranding:**
Class 2 IEC 60228
- Nominal Voltage Uo/U:**
300/300 V
- Test voltage:**
C/C 1500 V x 1 minute
- Temperature range:**
during operation: -30° to +70°C
during installation: -5° to +50°C
- Minimum Bending Radius:**
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 175 IS			
2x2x0,5	8,3	35,7	83
6x2x0,5	11,8	97,7	185
10x2x0,5	15,2	159,7	284
12x2x0,5	15,7	190,6	317
16x2x0,5	17,6	252,6	415
20x2x0,5	19,5	314,6	514
24x2x0,5	21,9	376,6	606
30x2x0,5	23,3	469,5	732
3x3x0,5	9,9	66,7	124
6x3x0,5	13,1	128,7	230
10x3x0,5	16,9	211,3	357
12x3x0,5	17,7	252,6	410
2x2x0,75	9,5	46,0	106
6x2x0,75	13,3	128,5	231
10x2x0,75	17,4	211,0	365
12x2x0,75	18,0	252,3	408
16x2x0,75	20,1	334,8	534
20x2x0,75	22,4	417,3	663
24x2x0,75	25,1	499,8	780
30x2x0,75	26,8	623,6	943
3x3x0,75	11,1	89,8	156
6x3x0,75	15,0	174,9	302
10x3x0,75	19,4	288,3	468
12x3x0,75	20,3	345,1	538

Number cores and mm ² per conductor	Approx. Outer Diameter (mm)	Copper index (kg/km)	Approx. Weight (kg/km)
ÖLFLEX® INSTRUM 175 IS			
2x2x1	10,3	56,8	124
6x2x1	14,8	161,0	283
10x2x1	19,0	265,3	436
12x2x1	19,7	317,4	489
16x2x1	22,1	421,6	643
20x2x1	24,8	525,8	812
24x2x1	27,8	630,0	955
30x2x1	29,6	786,3	1.155
3x3x1	12,4	114,2	193
6x3x1	16,4	223,7	366
10x3x1	21,5	369,7	580
12x3x1	22,2	442,7	656
2x2x1,5	12,0	78,5	166
6x2x1,5	17,2	226,1	382
10x2x1,5	22,2	373,7	589
12x2x1,5	23,2	447,5	673
16x2x1,5	26,0	595,1	884
20x2x1,5	29,2	742,7	1.116
24x2x1,5	32,7	890,3	1.310
30x2x1,5	34,8	1111,6	1.583
3x3x1,5	14,4	163,0	263
6x3x1,5	19,2	321,3	502
10x3x1,5	25,1	532,4	797
12x3x1,5	26,2	637,9	915

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 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,
Arctic version with operation between -60°C and +70°C



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, Arctic version with operation between -60°C and +70°C