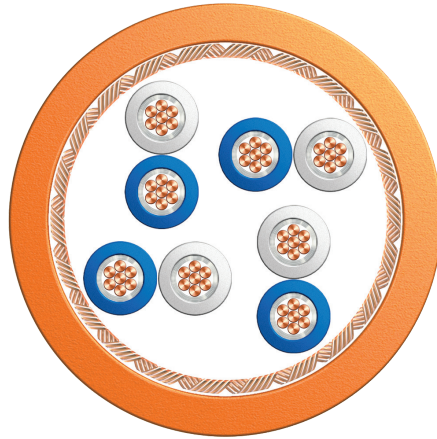


AIAF Fire Resistant Armoured Instrumentation Cables



Application

A range of 150/250V fire resistant armoured twisted pair cables designed to maintain circuit integrity according to IEC60331 FE180. Suitable for communication & instrumentation applications they have low transfer impedance in low frequencies and effective high frequency screening. AIAF cables can be used for detection & warning systems where enhanced mechanical protection is required. DNV approved and designed with halogen-free & fire-retardant materials they provide optimum safety in the event of fire for people and assets.

Cable Design

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 2) (tinned copper and/or Class 5 versions are available upon request)
Flame Barrier	Mica Tape
Insulation	XLPE (IEC60092-360)
Core Colors	Pair: Blue / White, Numbered
Lay-up	Cores are stranded in layers
Separator	PET Foil (HFFR filler upon request)
Overall Screen	Annealed Copper Wire Braiding (90% Coverage)
Outer Sheath	HFFR (IEC60092-360 SHF1), Orange
Reference Standards	IEC60092-376

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Technical Properties

Operating Voltage	150/250 (300) V
Test Voltage	1.5 kV (a.c) 3.6 kV (d.c)
Conductor Resistance	IEC/EN 60228
Insulation Resistance	> 5000 M.Ω x km
Temperature Range	-40°C.....+90°C
Flame Retardancy	IEC/EN 60332-1-2, IEC/EN 60332-3-22 (CAT.A)
Fire Resistance	IEC60331-21
Smoke Density	IEC/EN 61034-1+2
Amount of Halogen Acid Gas	IEC/EN 60754-1
Corrosive Gases Measurement	IEC/EN 60754-2
Min.Bending Radius (Fixed)	8 x Cable Diameter

Specification

Construction	Cable Diameter (mm) (± 5 %)	Cable Weight (kg/ km)
1x2x0.5	7,4	76
2x2x0.5	10,4	129
3x2x0.5	10,9	154
4x2x0.5	12,0	184
5x2x0.5	13,0	214
7x2x0.5	14,6	302
10x2x0.5	18,4	414
12x2x0.5	19,1	463
16x2x0.5	21,1	563

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*AIAF Fire Resistant
Armoured Instrumentation Cables*

19x2x0.5	22,3	637
24x2x0.5	26,2	798
27x2x0.5	26,7	859
37x2x0.5	29,9	1097
1x2x0.75	8,2	93
2x2x0.75	11,8	162
3x2x0.75	12,5	197
4x2x0.75	14,1	270
5x2x0.75	15,4	318
7x2x0.75	16,8	388
10x2x0.75	21,3	540
12x2x0.75	22,1	606
16x2x0.75	24,5	748
19x2x0.75	25,9	851
24x2x0.75	30,4	1069
27x2x0.75	31,1	1162
37x2x0.75	35,0	1490
1x2x1	8,6	104
2x2x1	12,4	182
3x2x1	13,1	222
4x2x1	14,9	305
5x2x1	16,3	358
7x2x1	17,8	446
10x2x1	22,6	623
12x2x1	23,3	700
16x2x1	26,0	874
19x2x1	27,4	998
24x2x1	32,3	1253
27x2x1	33,1	1363
37x2x1	37,6	1868
1x2x1.5	9,6	130
2x2x1.5	14,5	267
3x2x1.5	15,4	328

*AIAF Fire Resistant
Armoured Instrumentation Cables*

4x2x1.5	16,9	392
5x2x1.5	18,5	463
7x2x1.5	20,3	584
7x2x0.75	16,8	388
10x2x0.75	21,3	540
12x2x0.75	22,1	606
16x2x0.75	24,5	748
19x2x0.75	25,9	851
24x2x0.75	30,4	1069
27x2x0.75	31,1	1162
37x2x0.75	35,0	1490
1x2x1	8,6	104
2x2x1	12,4	182
3x2x1	13,1	222
4x2x1	14,9	305
5x2x1	16,3	358
7x2x1	17,8	446
10x2x1	22,6	623
12x2x1	23,3	700
16x2x1	26,0	874
19x2x1	27,4	998
24x2x1	32,3	1253
27x2x1	33,1	1363
37x2x1	37,6	1868
1x2x1.5	9,6	130
2x2x1.5	14,5	267
3x2x1.5	15,4	328
4x2x1.5	16,9	392
5x2x1.5	18,5	463
7x2x1.5	20,3	584
10x2x1.5	26,0	822
12x2x1.5	26,8	927
16x2x1.5	29,9	1166

*AIAF Fire Resistant
Armoured Instrumentation Cables*

19x2x1.5	31,6	1332
24x2x1.5	37,8	1776
27x2x1.5	38,6	1935
37x2x1.5	43,5	2497
1x2x2.5	10,5	161
2x2x2.5	16,0	330
3x2x2.5	17,0	416
4x2x2.5	18,7	504
5x2x2.5	20,5	602
7x2x2.5	20,5	763
10x2x2.5	22,4	1085
12x2x2.5	28,9	1234
16x2x2.5	29,9	1567
19x2x2.5	33,4	1890
24x2x2.5	35,7	2384
27x2x2.5	43,2	2601
37x2x2.5	48,6	3407