

Fire Resistant Instrumentation Cable

0.3/0.5 KV

Product Code: FR-IXH (Twisted Pair Core)

CU/MICA/XLPE/OS/LSZH



■ APPLICATION

BENKA fire performance cables are specially designed and manufactured for applications related to cable systems in building and transport infrastructure which needs to be extremely fire resistant and reduce the consequences, personal injury and property damage. As such, they can be used for fire detection, alarm evacuation, fire alarm, audio, emergency lighting and critical communication circuit used in public access buildings and industrial complexes.

These cables are able to maintain circuit integrity in cases of fire, which when burnt produces very low quantities of smoke and virtually no acidic gases.



Construction	
Conductor	Plain annealed copper conductor to IEC 60228, Class 2
Fire barrier	Mica tape (2 layers)
Insulation	Cross-linked polyethylene (XLPE)
Overall Screening	Aluminium / Polyester Tape with 0.5 mm ² (7/0.3mm) Tinned Drain Wire
Twist	Core twisted in pair with screening against electrical interference
Outer sheath	Low smoke halogen free (LSZH) compound. Color: Orange

Technical Data	
Working Voltage	300/500V
Test Voltage	2000V
Rated Temperature	-40°C to +90°C
Insulation Resistance	10 MΩ-km (min) @ 20°C DC 500V (EIA-364-21)
Flexibility Test	No cracking
Flame Retardant	In accordance to IEC 60332-1, IEC 60332-3-22
Fire Resistant	In accordance to IEC 60331-21, BS 6387 CWZ & SS 299
Smoke emission	In accordance to IEC 61034-2, BS EN 50268
Halogen free	In accordance to IEC 60754-1
Acid and corrosive gases	In accordance to IEC 60754-2
Smoke density	In accordance to IEC 61034
Standard & Approval	ROHS, SIRIM
Minimum bending radius	8 x OD (static)

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Part No.	Conductor cross-section mm ²	Approx. Cable OD mm	Copper index kg/km	Approx. Cable Weight kg/km
236 1210	1x2x1	7.3	24	84
236 2210	2x2x1	14.2	43	140
236 4210	4x2x1	17.3	81	220
236 5210	5x2x1	19.1	98	310
236 10210	10x2x1	27.1	196	520
236 15210	15x2x1	32.8	292	790
236 20210	20x2x1	36.2	388	1,010
236 30210	30x2x1	43.5	580	1,498
236 50210	50x2x1	58.4	968	2,544
236 1215	1x2x1.5	7.9	33	99
236 2215	2x2x1.5	15.1	62	188
236 4215	4x2x1.5	18.3	120	277
236 5215	5x2x1.5	20.8	152	330
236 10215	10x2x1.5	28.3	292	634
236 15215	15x2x1.5	34.2	436	1,016
236 20215	20x2x1.5	38.8	580	1,310
236 30215	30x2x1.5	46.2	868	1,890
236 50215	50x2x1.5	61.2	1,448	3,308
236 1225	1x2x2.5	10.9	52	134
236 2225	2x2x2.5	18.1	100	253
236 4225	4x2x2.5	20.1	196	415
236 5225	5x2x2.5	24.9	246	566
236 10225	10x2x2.5	34.8	484	988
236 15225	15x2x2.5	41.1	724	1,451
236 20225	20x2x2.5	46.9	964	1,995
236 30225	30x2x2.5	55.9	1,444	2,798
236 50225	50x2x2.5	71.2	2,321	4,711