



## ■ Unshielded Fire Resistant Data Cable (Mica version)



### 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 case of fire, which when burnt produces very low quantities of smoke and virtually no acidic gases.



Construction	
Conductor	Stranded bare copper conductor to IEC 60228, DIN VDE 0295, EN 60228, class 2/class 5
Fire barrier	Mica tape outside each core/all pairs + fiberglass tape (optional)
Insulation	Cross-linked LSZH (HX)/Cross-linked polyethylene (XLPE), twisted in pair
Outer sheath	Low smoke zero halogen (LSZH) compound. Color: Orange, RAL 2003

Technical Data	
Working voltage	300/500V
Test voltage	2000V
Rated temperature	-20°C to +90°C
Conductor resistance (max) (Ω/km)	0.5 mm <sup>2</sup> : 39; 0.75 mm <sup>2</sup> : 26; 1.0 mm <sup>2</sup> : 19.5; 1.5 mm <sup>2</sup> : 13.3; 2.0 mm <sup>2</sup> : 10.6; 2.5 mm <sup>2</sup> : 8.1
Capacitance (max) (nF/km)	120 (C/C); 240 (C/S)
Impedance	65 Ω
Max recommended current @ 25°C (Amps)	0.5 mm <sup>2</sup> : 3.2; 0.75 mm <sup>2</sup> : 6.3; 1.0 mm <sup>2</sup> : 10.5; 1.5 mm <sup>2</sup> : 14.5; 2.0 mm <sup>2</sup> : 17.5; 2.5 mm <sup>2</sup> : 20.8
Flame retardant	IEC 60332-1
Flame propagation	IEC 60332-3-22
Fire resistant	IEC 60331-21, BS 6387 CAT CWZ, DIN 4102-12 & EN 50020 Annex E
Halogen free	IEC 60754-1
Acid and corrosive gases	IEC 60754-2
Smoke density	IEC 61034-2
Standard & Approval	RoHS, SIRIM, TUV, BV
Minimum bending radius	8 x OD (static)

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Part No.	Dimension n x mm <sup>2</sup>	Cable OD mm	Copper index kg/km	Weight kg/km
236 1210-HH	1PR x 1.0	7.4	24	81
236 2210-HH	2PR x 1.0	14.0	43	136
236 4210-HH	4PR x 1.0	17.1	81	215
236 5210-HH	5PR x 1.0	18.9	98	304
236 10210-HH	10PR x 1.0	26.9	196	512
236 15210-HH	15PR x 1.0	32.5	292	780
236 20210-HH	20PR x 1.0	35.8	388	998
236 30210-HH	30PR x 1.0	43.2	580	1,482
236 50210-HH	50PR x 1.0	58.1	968	2,522
236 1215-HH	1PR x 1.5	8.3	33	96
236 2215-HH	2PR x 1.5	13.4	62	184
236 4215-HH	4PR x 1.5	18.0	120	272
236 5215-HH	5PR x 1.5	20.5	152	323
236 10215-HH	10PR x 1.5	28.1	292	625
236 15215-HH	15PR x 1.5	34.0	436	1,002
236 20215-HH	20PR x 1.5	38.6	580	1,292
236 30215-HH	30PR x 1.5	45.9	868	1,868
236 50215-HH	50PR x 1.5	61.2	1,448	3,281
236 1225-HH	1PR x 2.5	9.4	52	131
236 2225-HH	2PR x 2.5	17.9	100	249
236 4225-HH	4PR x 2.5	19.9	196	410
236 5225-HH	5PR x 2.5	24.6	246	560
236 10225-HH	10PR x 2.5	34.5	484	981
236 15225-HH	15PR x 2.5	40.8	724	1,435
236 20225-HH	20PR x 2.5	46.7	964	1,975
236 30225-HH	30PR x 2.5	55.6	1,444	2,769
236 50225-HH	50PR x 2.5	71.0	2,321	4,677