



■ Shielded 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
Overall screen	Aluminium foil with tinned copper drain wire
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 ² : 39; 0.75 mm ² : 26; 1.0 mm ² : 19.5; 1.5 mm ² : 13.3; 2.0 mm ² : 10.6; 2.5 mm ² : 8.1
Capacitance (max) (nF/km)	120 (C/C); 240 (C/S)
Impedance	65 Ω
Max recommended current @ 25°C (Amps)	0.5 mm ² : 3.2; 0.75 mm ² : 6.3; 1.0 mm ² : 10.5; 1.5 mm ² : 14.5; 2.0 mm ² : 17.5; 2.5 mm ² : 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 ²	Cable OD mm	Copper index kg/km	Weight kg/km
236 1210	1PR x 1.0	7.7	24	84
236 2210	2PR x 1.0	14.2	43	140
236 4210	4PR x 1.0	17.3	81	220
236 5210	5PR x 1.0	19.1	98	310
236 10210	10PR x 1.0	27.1	196	520
236 15210	15PR x 1.0	32.8	292	790
236 20210	20PR x 1.0	36.2	388	1,010
236 30210	30PR x 1.0	43.5	580	1,498
236 50210	50PR x 1.0	58.4	968	2,544
236 1215	1PR x 1.5	8.6	33	99
236 2215	2PR x 1.5	13.7	62	188
236 4215	4PR x 1.5	18.3	120	277
236 5215	5PR x 1.5	20.8	152	330
236 10215	10PR x 1.5	28.3	292	634
236 15215	15PR x 1.5	34.2	436	1,016
236 20215	20PR x 1.5	38.8	580	1,310
236 30215	30PR x 1.5	46.2	868	1,890
236 50215	50PR x 1.5	61.4	1,448	3,308
236 1225	1PR x 2.5	9.7	52	134
236 2225	2PR x 2.5	18.1	100	253
236 4225	4PR x 2.5	20.1	196	415
236 5225	5PR x 2.5	24.9	246	566
236 10225	10PR x 2.5	34.8	484	988
236 15225	15PR x 2.5	41.1	724	1,451
236 20225	20PR x 2.5	46.9	964	1,995
236 30225	30PR x 2.5	55.9	1,444	2,798
236 50225	50PR x 2.5	71.2	2,321	4,711