

■ Fire Resistant Power 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 cores + fiberglass tape (optional)
Insulation	Cross-linked LSZH (HX)/Cross-linked polyethylene (XLPE)
Outer sheath	Low smoke zero halogen (LSZH) compound. Color: Orange, RAL 2003

Technical Data	
Working voltage	600/1000V
Test voltage	3500V
Rated temperature	-20°C to +90°C
Flame retardant	IEC 60332-1
Flame propagation	IEC 60332-3-22
Fire resistant	IEC 60331-21, DIN 4102-12 (210) & EN 50020 Annex E, BS 6387 CAT CWZ
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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CU/MICA/LSZH

Part No.	Dimension n x mm ²	Cable OD mm	Copper index kg/km	Weight kg/km
236 0110	1 x 1.0	3.8	10	25
236 0115	1 x 1.5	4.0	15	30
236 0125	1 x 2.5	4.5	24	42
236 001 040	1 x 4.0	5.0	39	58
236 001 060	1 x 6.0	5.7	58	80
236 001 100	1 x 10	6.8	96	130
236 001 160	1 x 16	8.0	153	200
236 001 250	1 x 25	9.6	240	295
236 001 350	1 x 35	10.7	338	400
236 001 500	1 x 50	12.7	482	565
236 001 700	1 x 70	14.4	672	788
236 001 950	1 x 95	16.7	912	996
236 001 1200	1 x 120	18.5	1,152	1,260
236 001 1500	1 x 150	20.1	1,444	1,590
236 001 1850	1 x 185	22.5	1,777	1,956

CU/MICA/HX/LSZH

Part No.	Dimension n x mm ²	Cable OD mm	Copper index kg/km	Weight kg/km
236 0110X	1 x 1.0	6.2	10	42
236 0115X	1 x 1.5	6.5	15	54
236 0125X	1 x 2.5	6.8	24	67
236 001 040X	1 x 4.0	7.5	39	86
236 001 060X	1 x 6.0	8.1	58	110
236 001 100X	1 x 10	9.2	96	155
236 001 160X	1 x 16	10.2	153	220
236 001 250X	1 x 25	11.9	240	325
236 001 350X	1 x 35	13.2	338	425
236 001 500X	1 x 50	14.6	482	600
236 001 700X	1 x 70	16.6	672	820
236 001 950X	1 x 95	18.7	912	1,100
236 001 1200X	1 x 120	20.5	1,152	1,350
236 001 1500X	1 x 150	22.7	1,444	1,640
236 001 1850X	1 x 185	25.5	1,777	2,040