



■ Fire Resistant Power Cable (Silicone version)



APPLICATION

BENKA fire performance cables are specially designed and manufactured for application 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
Insulation (fire barrier)	Cross-linked ceramic forming polymer (silicone) compound, DIN 47100 color code
Wrapping (optional)	Pes tape + fiberglass/mica tape
Stranding	In layer
Outer sheath	Low smoke zero halogen (LSZH) compound. Color: Orange, RAL 2003

Technical Data	
Working voltage	300/500V (Optional: 600/1000V)
Test voltage	2000V (Optional: 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 (~BS 6387 & IEC 60331)
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 0210-ER	2 x 1.0	6.0 ± 1.0	18	99
236 0215-ER	2 x 1.5	6.6 ± 1.0	29	130
236 0225-ER	2 x 2.5	10.1 ± 1.0	48	166
236 002 040-ER	2 x 4.0	12.2 ± 1.0	76	227
236 002 060-ER	2 x 6.0	13.4 ± 1.0	115	289
236 002 100-ER	2 x 10	14.5 ± 1.0	191	409
236 003 010-ER	3 x 1.0	6.5 ± 1.0	27	109
236 003 015-ER	3 x 1.5	7.0 ± 1.0	43	158
236 003 025-ER	3 x 2.5	8.7 ± 1.0	72	200
236 003 040-ER	3 x 4.0	12.4 ± 1.0	115	270
236 003 060-ER	3 x 6.0	13.9 ± 1.0	173	355
236 003 100-ER	3 x 10	15.7 ± 1.0	288	510
236 004 010-ER	4 x 1.0	8.7 ± 1.0	37	174
236 004 015-ER	4 x 1.5	9.9 ± 1.0	58	187
236 004 025-ER	4 x 2.5	11.8 ± 1.0	96	237
236 004 040-ER	4 x 4.0	13.8 ± 1.0	154	331
236 004 060-ER	4 x 6.0	15.7 ± 1.0	230	435
236 004 100-ER	4 x 10	16.7 ± 1.0	384	632