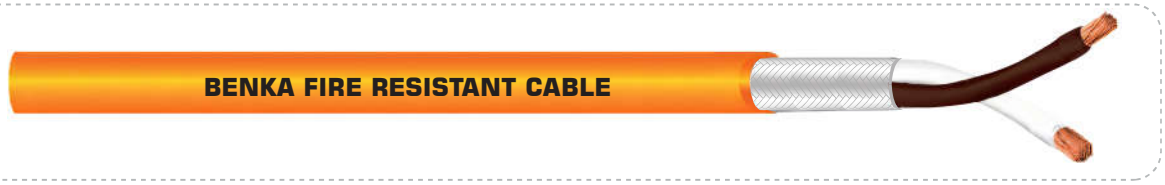
Unshielded Fire Resistant Cable (Silicone version)

APPLICATION

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

These cables are engineered to maintain circuit integrity in case of fire, resulting in very low quantities of smoke and virtually no acidic gases being produced when burnt.



Construction	
Conductor	Stranded bare copper conductor, class 2/class 5
Insulation (fire barrier)	Cross-linked polyethylene (XLPE)/silicone compound, twisted in pair
Wrapping (optional)	Mica tape/fiberglass tape
Outer sheath	Low smoke zero halogen (LSZH) compound. Color: Orange/Black

Technical Data	
Rated voltage	300/500V – Control & instrumentation applications (Optional: 600/1000V) 30V – Analog/digital transmission
Test voltage	2000V
Rated temperature	-30°C to +90°C
Conductor resistance (max) @20°C (Ω/km)	According to IEC 60228 0.5 mm^2: 39; 0.75 mm^2: 26; 1.0 mm^2: 19.5; 1.5 mm^2: 13.3; 2.5 mm^2: 8.1;...
Capacitance (max) (nF/km)	120 (C/C); 240 (C/S)
Impedance	65 Ω
Recommended current (max) @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; 2.5 mm^2: 20.8;...
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, IEC, TUV
Minimum bending radius	8 x OD (static)

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Part No.	Dimension n x mm²	Cable OD mm	Copper index kg/km	Weight kg/km
236 1250-UN	1PR x 0.5	5.2 ± 1.0	13	38
236 2250-UN	2PR x 0.5	7.6 ± 1.0	22	62
236 3250-UN	3PR x 0.5	8.1 ± 1.0	32	78
236 4250-UN	4PR x 0.5	8.8 ± 1.0	40	96
236 5250-UN	5PR x 0.5	10.0 ± 1.0	49	119
236 1275-UN	1PR x 0.75	5.6 ± 1.0	18	41
236 2275-UN	2PR x 0.75	8.3 ± 1.0	31	68
236 3275-UN	3PR x 0.75	8.8 ± 1.0	44	91
236 4275-UN	4PR x 0.75	9.9 ± 1.0	59	133
236 5275-UN	5PR x 0.75	10.9 ± 1.0	70	163
236 1210-UN	1PR x 1.0	6.1 ± 1.0	16	48
236 2210-UN	2PR x 1.0	9.1 ± 1.0	33	96
236 3210-UN	3PR x 1.0	10.1 ± 1.0	48	128
236 4210-UN	4PR x 1.0	10.9 ± 1.0	64	159
236 5210-UN	5PR x 1.0	12.2 ± 1.0	80	195
236 1215-UN	1PR x 1.5	6.3 ± 1.0	24	55
236 2215-UN	2PR x 1.5	9.7 ± 1.0	48	117
236 3215-UN	3PR x 1.5	10.4 ± 1.0	72	158
236 4215-UN	4PR x 1.5	11.4 ± 1.0	96	199
236 5215-UN	5PR x 1.5	13.1 ± 1.0	120	244
236 1225-UN	1PR x 2.5	7.8 ± 1.0	40	98
236 2225-UN	2PR x 2.5	12.4 ± 1.0	80	176
236 3225-UN	3PR x 2.5	13.2 ± 1.0	120	244
236 4225-UN	4PR x 2.5	14.7 ± 1.0	160	310
236 5225-UN	5PR x 2.5	16.5 ± 1.0	200	383
236 1240-UN	1PR x 4.0	10.2 ± 1.0	66	143
236 1260-UN	1PR x 6.0	11.5 ± 1.0	100	199
236 12100-UN	1PR x10.0	13.9 ± 1.0	168	303

2Cx2.5mm2