

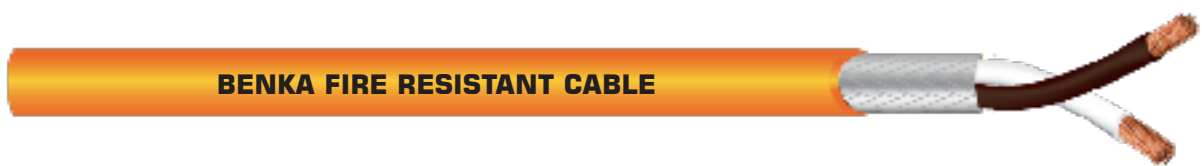
## Unshielded Fire Resistant Cable (Silicone version)



### 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, RAL 2003     |

| Technical Data                          |  |
|---|--|
| Working voltage                         | 300/500V   |
| Test voltage                            | 2000V  |
| Rated temperature                       | -30°C to +90°C   |
| Conductor resistance (max) @20°C (Ω/km) | According to IEC 60228<br>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; 2.5 mm <sup>2</sup> : 8.1;... |
| Capacitance (max) (nF/km)               | 120 (C/C); 240 (C/S)   |
| Impedance                               | 65 Ω   |
| Recommended current (max) @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; 2.5 mm <sup>2</sup> : 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<br>n x mm <sup>2</sup> | Cable OD<br>mm | Copper index<br>kg/km | Weight<br>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 x 10.0                       | 13.9 ± 1.0     | 168                   | 303             |