Fire Resistant Power Cable 0.6/1 KV
Product Code:
FR-XH (MULTI CORE) CU/MICA/XLPE/LSZH

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, emergency lighting and critical communication circuit used in public access buildings and industrial complexes.

These cables are able to maintain circuit integrity in cases of fire, which when burnt produces very low quantities of smoke and virtually no acidic gases.

Construction	
Conductor	Plain annealed copper conductor to IEC 60228, Class 2
Fire barrier	Mica tape (2 layers)
Insulation	Cross-linked polyethylene (XLPE)
Filler (optional)	Flame Retardant Polypropylene (PP line)
Sheath	Low smoke halogen free (LSZH) compound. Color: Orange

Technical Data	
Working Voltage	600/1000V
Test Voltage	2000V
Rated Temperature	-40°C to +90°C
Insulation Resistance	10 MΩ-km (min) @ 20°C DC 500V (EIA-364-21)
Flexibility Test	No cracking
Flame Retardant	In accordance to IEC 60332-1, IEC 60332-3-22
Fire Resistant	In accordance to IEC 60331-21, BS 6387 CWZ & SS 299
Smoke emission	In accordance to IEC 61034-2, BS EN 50268
Halogen free	In accordance to IEC 60754-1
Acid and corrosive gases	In accordance to IEC 60754-2
Smoke density	In accordance to IEC 61034
Standard & Approval	ROHS, SIRIM
Minimum bending radius	8 x OD (static)

600/1000V CU/MICA/XLPE/LSZH

Part No.	Conductor cross-section mm2	Approx. Cable OD mm	Copper index kg/km	Approx. Cable Weight kg/km
236 0215	2x1.5	11.2	29	132
236 0225	2x2.5	11.6	48	168
236 002 040	2x4.0	13.7	76	230
236 002 060	2x6.0	15.2	115	290
236 002 100	2x10	16.1	191	412
236 002 160	2x16	18	308	550
236 002 250	2x25	19	480	850
236 002 350	2x35	21	672	1,102
236 003 015	3x1.5	11	43	161
236 003 025	3x2.5	12	72	204
236 003 040	3x4.0	14	115	275
236 003 060	3x6.0	15	173	360
236 003 100	3x10	17	288	520
236 003 160	3x16	20	461	745
236 003 250	3x25	21	720	1,100
236 003 350	3x35	23	1,008	1,420
236 003 500	3x50	27	1,440	1,700
236 003 700	3x70	30	2,016	2,280
236 003 950	3x95	35	2,736	3,050
236 003 1200	3x120	37	3,456	3,838
236 004 015	4x1.5	12	58	190
236 004 025	4x2.5	13	96	240
236 004 040	4x4.0	15	154	333
236 004 060	4x6.0	17	230	440
236 004 100	4x10	18	384	640
236 004 160	4x16	21	614	930
236 004 250	4x25	24	960	1,400
236 004 350	4x35	26	1,344	1,730
236 004 500	4x50	30	1,920	2,175
236 004 700	4x70	34	2,688	3,040
236 004 950	4x95	38	3,648	4,150
236 004 1200	4x120	42	4,608	5,140

Fire Resistant Power Cable 0.6/1 KV
Product Code:
FR-H (SINGLE CORE) CU/MICA/LSZH

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, emergency lighting and critical communication circuit used in public access buildings and industrial complexes.

These cables are able to maintain circuit integrity in cases of fire, which when burnt produces very low quantities of smoke and virtually no acidic gases.

Construction	
Conductor	Plain annealed copper conductor to IEC 60228, Class 2
Fire barrier	Mica tape (2 layers)
Sheath	Low smoke halogen free (LSZH) compound. Color: Orange

Technical Data	
Working Voltage	600/1000V
Test Voltage	3500V
Rated Temperature	-40°C to +90°C
Insulation Resistance	10 MΩ-km (min) @ 20°C DC 500V (EIA-364-21)
Flexibility Test	No cracking
Flame Retardant	In accordance to IEC 60332-1, IEC 60332-3-22
Fire Resistant	In accordance to IEC 60331-21, BS 6387 CWZ & SS 299
Smoke emission	In accordance to IEC 61034-2, BS EN 50268
Halogen free	In accordance to IEC 60754-2
Acid and corrosive gases	In accordance to IEC 60754-1
Smoke density	In accordance to IEC 61034
Standard & Approval	ROHS, SIRIM
Minimum bending radius	8 x OD (static)

600/1000V Cu/MICA/LSZH

Part No.	Conductor cross-section mm2	Approx. Cable OD mm	Copper index kg/km	Approx. Cable Weight kg/km
236 0110	1x1.0	3.8	9.6	25
236 0115	1x1.5	4	14.5	30
236 0125	1x2.5	4.5	23.8	42
236 001 040	1x4.0	5	38.4	58
236 001 060	1x6.0	5.7	58	80
236 001 100	1x10	6.8	95	125
236 001 160	1x16	8	154	180
236 001 250	1x25	9.6	239	295
236 001 350	1x35	10.7	335	385
236 001 500	1x50	12.7	479	520
236 001 700	1x70	14.4	675	730
236 001 950	1x95	16.7	915	990
236 001 1200	1x120	18.5	1,150	1,240
236 001 1500	1x150	20.1	1,440	1,510
236 001 1850	1x185	22.5	1,777	1,900
236 001 2400	1x240	25.5	2,305	2,470
236 001 3000	1x300	28.5	2,880	3,080

600/1000V Cu/MICA/XLPE/LSZH

Part No.	Conductor cross-section mm2	Approx. Cable OD mm	Copper index kg/km	Approx. Cable Weight kg/km
236 0110X	1x1.0	6.2	9.6	42
236 0115X	1x1.5	6.5	14.5	54
236 0125X	1x2.5	6.8	23.8	67
236 001 040X	1x4.0	7.5	38.4	86
236 001 060X	1x6.0	8.1	58	110
236 001 100X	1x10	9.2	95	155
236 001 160X	1x16	10.2	154	220
236 001 250X	1x25	11.9	239	325
236 001 350X	1x35	13.2	335	425
236 001 500X	1x50	14.6	479	600
236 001 700X	1x70	16.6	675	820
236 001 950X	1x95	18.7	915	1,100
236 001 1200X	1x120	20.5	1,150	1,350
236 001 1500X	1x150	22.7	1,440	1,640
236 001 1850X	1x185	25.5	1,777	2,040
236 001 2400X	1x240	28.5	2,305	2,650
236 001 3000X	1x300	31.5	2,880	3,260