FG7M1/FG7OM1

Application and Description

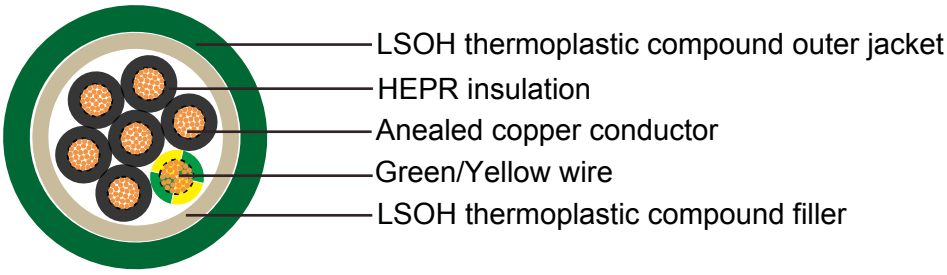
These cables are especially used in power circuits or signals and commands transfer. In environments with high fire hazards risk when it's essential to guarantee the safety of people and goods. Typically hospitals, schools, commercial areas, public premises, hotels, undergrounds, residential buildings and industries ambits with high concentration of persons or instrumental goods. For fixed installation indoor or outdoor, clipped on metallic frames or walls

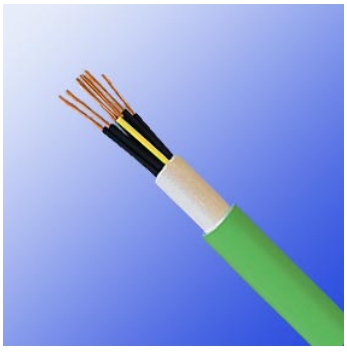
Standard and Approval

CEI 20-11; CEI 20-13; CEI 20-22 III; CEI 20-29; CEI 20-35; CEI 20-37; CEI 20-38; CEI-UNEL 00722; CEI-UNEL 35382/35384, EN 60332-1, low voltage directive 73/23/EEC & 93/68/EEC., ROHS compliant

Cable Construction

- Flexible bare copper conductor to IEC 60228 cl.5
- Rubber HEPR, G7 quality
- LSOH thermoplastic compound filler
- Type M1 LSOH thermoplastic compound outer jacket





FG7OM1

Technical Characteristics

- Working voltage: 600/1000 V
- Test voltage: 4000 V
- Minimum bending radius: UNEL 35382: 4 x outer diameter UNEL 35384: 6 x outer diameter
- Flexing temperature: -0° C to +90° C
- Static temperature: -25° C to +90° C
- Maximum short circuit temperature: +250° C
- Flame retardant: CEI 20-22 II, IEC 60332-3-C
- Insulation resistance: 100 MΩ x km

Cable Parameter

AWG	No. of Cores x Nominal Cross Sectional Area *# x mm²*	Nominal Thickness of Insulation *mm*	Nominal Thickness of Sheath *mm*	Nominal Overall Diameter *mm*	Nominal Weight *kg/km*
FG7M1(power)					
16(30/30)	1x1.5	0.7	1.4	6.7	55
14(50/30)	1x2.5	0.7	1.4	7.2	65
12(56/28)	1x4	0.7	1.4	7.8	85
10(84/28)	1x6	0.7	1.4	8.4	105
8(80/26)	1x10	0.7	1.4	9.4	155
6(128/26)	1x16	0.7	1.4	10.4	210
4(200/26)	1x25	0.9	1.4	12.2	310
2(280/26)	1x35	0.9	1.4	13.6	410
1(400/26)	1x50	1	1.4	15.4	560
2/0(356/24)	1x70	1.1	1.4	17.3	770
3/0(485/24)	1x95	1.1	1.5	19.4	990
4/0(614/24)	1x120	1.2	1.5	21.4	1250
250 MCM	1x150	1.4	1.6	23.8	1550
350 MCM	1x185	1.6	1.6	36.0	1900
450 MCM	1x240	1.7	1.7	29.2	2450
550 MCM	1x300	1.8	1.8	32.0	3000
FG7OM1(power)					
16(30/30)	2x1.5	0.7	1.8	12.0	155
14(50/30)	2x2.5	0.7	1.8	13.0	190
12(56/28)	2x4	0.7	1.8	14.2	240
10(84/28)	2x6	0.7	1.8	15.4	310
8(80/26)	2x10	0.7	1.8	17.3	460
6(128/26)	2x16	0.7	1.8	19.4	620
4(200/26)	2x25	0.9	1.8	23.0	900
2(280/26)	2x35	0.9	1.8	25.7	1200
1(400/26)	2x50	1.0	1.8	29.3	1650
2/0(356/24)	2x70	1.1	1.8	33.1	2050
3/0(485/24)	2x95	1.1	2.0	37.4	2670
4/0(614/24)	2x120	1.2	2.1	41.5	3330
250 MCM	2x150	1.4	2.2	46.1	4100
16(30/30)	3x1.5	0.7	1.8	12.5	175
14(50/30)	3x2.5	0.7	1.8	13.6	220
12(56/28)	3x4	0.7	1.8	14.9	280
10(84/28)	3x6	0.7	1.8	16.2	365
8(80/26)	3x10	0.7	1.8	18.2	550
6(128/26)	3x16	0.7	1.8	20.6	760
4(200/26)	3x25	0.9	1.8	24.5	1100
2(280/26)	3x35	0.9	1.8	27.3	1500
1(400/26)	3x50	1	1.8	31.2	2050
2/0(356/24)	3x70	1.1	1.9	35.6	2850

* Galvinized steel armouring version (FG7OM1AM1) is available

Italian Standard

AWG	No. of Cores x Nominal Cross Sectional Area *# x mm²*	Nominal Thickness of Insulation *mm*	Nominal Thickness of Sheath *mm*	Nominal Overall Diameter *mm*	Nominal Weight *kg/km*
3/0(485/24)	3x95	1.1	2.0	40.0	3600
4/0(614/24)	3x120	1.2	2.1	44.4	4600
250 MCM	3x150	1.4	2.3	49.5	5600
350 MCM	3x185	1.6	2.4	55.2	6900
450 MCM	3x240	1.7	2.6	61.9	9150
550 MCM	3x300	1.8	2.8	68.0	11000
16(30/30)	4x1.5	0.7	1.8	13.4	200
14(50/30)	4x2.5	0.7	1.8	14.6	260
12(56/28)	4x4	0.7	1.8	16.0	340
10(84/28)	4x6	0.7	1.8	17.5	440
8(80/26)	4x10	0.7	1.8	19.8	670
6(128/26)	4x16	0.7	1.8	22.4	950
4(200/26)	4x25	0.9	1.8	26.8	1400
2(280/26)	3x35+25	0.9	1.8	29.2	1700
1(400/26)	3x50+25	1	1.8	32.4	2300
2/0(356/24)	3x70+35	1.1	1.9	37.0	3100
3/0(485/24)	3x95+50	1.1	2.1	42.0	4050
4/0(614/24)	3x120+70	1.2	2.2	46.9	5250
300MCM	3x150+95	1.4	2.4	52.5	6500
350MCM	3x185+95	1.6	2.5	57.3	7800
500MCM	3x240+150	1.7	2.7	65.5	10500
16(30/30)	5x1.5	0.7	1.8	14.4	250
14(50/30)	5x2.5	0.7	1.8	15.6	320
12(56/28)	5x4	0.7	1.8	17.3	410
10(84/28)	5x6	0.7	1.8	18.9	540
8(80/26)	5x10	0.7	1.8	21.5	800
6(128/26)	5x16	0.7	1.8	24.4	1150
4(200/26)	5x25	0.9	1.8	29.3	1700
2(280/26)	5x35	0.9	1.8	32.8	2250
1(400/26)	5x50	1	2.0	38.2	3200
FG7OM1(control)					
16(30/30)	7x1.5	0.7	1.8	15.4	275
16(30/30)	10x1.5	0.7	1.8	18.7	365
16(30/30)	12x1.5	0.7	1.8	19.3	410
16(30/30)	16x1.5	0.7	1.8	21.1	510
16(30/30)	19x1.5	0.7	1.8	22.1	580
16(30/30)	24x1.5	0.7	1.8	25.4	700
14(30/50)	7x2.5	0.7	1.8	16.8	310
14(30/50)	10x2.5	0.7	1.8	20.6	395
14(30/50)	12x2.5	0.7	1.8	21.3	445
14(30/50)	16x2.5	0.7	1.8	23.3	545
14(30/50)	19x2.5	0.7	1.8	24.5	615
14(30/50)	24x2.5	0.7	1.8	28.3	750

* Galvinized steel armouring version (FG7OM1AM1) is available