Multi Conductor CL3R/ FPLR/ CMR/ CMG Non-Shielded

300V, 60°C, Multi-Conductor, Non-Shielded, Stranded Copper, CL3R/FPLR/CMR/CMG. Minimum Operating Temperature -10°C, Maximum Operating Temperature 60°C



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Stranded bare copper per ASTM B3 and B8
2. **Insulation:** Polyvinyl Chloride (PVC)
3. **Rip Cord:** Rip cord for ease of jacket removal
4. **Jacket:** Gray Polyvinyl Chloride (PVC)

APPLICATIONS AND FEATURES:

For use in Remote Control, Signaling, and Power-Limited circuits per NEC Article 725. Sizes 22 AWG - 16 AWG can also be used as communication circuits per NEC Article 800. Can be used in security, sound and audio, speaker cable, public address, intercom, sound reinforcement, alarm and access control circuits and power-limited controls. The conductors are cabled together; lay length varies depending on conductor count and gauge size.

- Flame Test: UL 1666
- Cable Type: CL3R, also, CMR where UL permits (Sizes 16 AWG and smaller)
- Voltage: 300 Volts
- Minimum Operating Temperature: -10°C
- Maximum Operating Temperature: 60°C

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 13 Power-Limited Circuit Cables
- UL 444 Communications Cables (22 AWG - 16 AWG)

SAMPLE PRINT LEGEND:

XX AWG XX/C E57497 c{UL}US CMR/CL3R/FPLR -- CMG FT4 MADE IN USA ROHS-2 COMPLIANT -- {MM/DD/YY} {HH:MM} {SEQUENTIAL FOOTAGE MARKS} SEQ FEET

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Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Cond.	Insul. Thickness	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight	DC Resistance @ 25°C	Min Bending Radius
	AWG	No.	strands	inch	mil	mil	inch	lb /1000ft	lb /1000ft	Ω /1000ft	inch
22 AWG											
R20004-1	22	2	7	0.022	5	15	0.12	4	8	16.723	0.5
R20045-1	22	4	7	0.022	5	15	0.149	9	16	16.723	0.6
R20047-1	22	6	7	0.022	5	15	0.165	13	21	16.723	0.7
R20025-1	22	8	7	0.022	5	15	0.181	17	27	16.723	0.7
R20487-1	22	12	7	0.022	5	15	0.217	26	39	16.723	0.9
18 AWG											
R40001-1	18	2	7	0.045	5	15	0.144	10	15	6.669	0.6
R40018-1	18	2	7	0.045	5	20	0.144	10	15	6.669	0.6
R40048-1	18	3	7	0.045	5	20	0.153	15	21	6.669	0.6
R40049-1	18	4	7	0.045	5	20	0.166	20	29	6.669	0.7
R40015-1	18	6	7	0.045	5	20	0.212	30	41	6.669	0.8
R40052-1	18	8	7	0.045	5	20	0.23	40	53	6.669	0.9
R40024-1	18	12	7	0.045	5	20	0.271	61	76	6.669	1.1
16 AWG											
R50003-1	16	2	19	0.056	5	20	0.174	16	22	4.181	0.7
R50045-1	16	4	19	0.056	5	20	0.206	32	41	4.181	0.8

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item

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