



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

300V, 75°C, Multi-Conductor, Non-Shielded, Stranded Copper, CL3R/FPLR/CMR/CMG



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Stranded bare copper per ASTM 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
- Temperature: 75°C

SPECIFICATIONS:

- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 13 Power-Limited Circuit Cables
- UL 444 Communications Cables (90°C, 300V)

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





Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Cond.	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance	Jacket Color
	AWG	No.	strands	inch	mil	inch	lb / 1000ft	lb /1000ft	Ω /1000ft	Ω /1000ft	Ω/1000ft	
22 AWG												
R20004-1	22	2	7	0.022	15	0.120	4	8	16.72	20.15	0.030	Gray
R20045-1	22	4	7	0.022	15	0.149	8	15	16.72	20.15	0.030	Gray
R20047-1	22	6	7	0.022	15	0.157	13	20	16.72	20.15	0.030	Gray
R20025-1	22	8	7	0.022	15	0.181	17	26	16.72	20.15	0.030	Gray
R20051-1	22	10	7	0.022	15	0.194	21	32	16.72	20.15	0.030	Gray
R20487-1	22	12	7	0.022	15	0.225	26	38	16.72	20.15	0.030	Gray
20 AWG												
R30017-1	20	2	7	0.036	15	0.132	6	11	10.50	12.65	0.027	Gray
18 AWG												
R40001-1	18	2	7	0.045	15	0.144	10	14	6.669	8.035	0.036	Gray
R40018-1	18	2	7	0.045	20	0.144	10	14	6.669	8.035	0.036	Gray
R40048-1	18	3	7	0.045	20	0.153	15	20	6.669	8.035	0.036	Gray
R40049-1	18	4	7	0.045	20	0.166	20	28	6.669	8.035	0.036	Gray
R40015-1	18	6	7	0.045	20	0.212	30	41	6.669	8.035	0.036	Gray
R40052-1	18	8	7	0.045	20	0.230	40	53	6.669	8.035	0.036	Gray
R40054-1	18	10	7	0.045	20	0.262	50	64	6.669	8.035	0.036	Gray
R40024-1	18	12	7	0.045	20	0.271	60	75	6.669	8.035	0.036	Gray
16 AWG												
R50003-1	16	2	19	0.056	20	0.174	16	22	4.181	5.037	0.033	Gray
R50045-1	16	4	19	0.056	20	0.212	32	41	4.181	5.037	0.033	Gray

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

