

CL3R/FPLR/CMR/CMG - MultiConductor Non-Shielded Gray PVC Jacket

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:

Remote Control, Signalling, and Power-Limited circuits per NEC Article 725. 22AWG - 16 AWG also as communication circuits per NEC Article 800. Security, sound and audio, speaker cable, public address, intercom, sound reinforcement, alarm and access control circuits and power-limited controls.

- 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



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | www.southwire.com

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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
	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
R20045-1	22	4	7	0.022	15	0.149	8	15	16.72	20.15	0.030
R20047-1	22	6	7	0.022	15	0.157	13	20	16.72	20.15	0.030
R20025-1	22	8	7	0.022	15	0.181	17	26	16.72	20.15	0.030
R20051-1	22	10	7	0.022	15	0.194	21	32	16.72	20.15	0.030
R20487-1	22	12	7	0.022	15	0.225	26	38	16.72	20.15	0.030
20 AWG											
R30017-1	20	2	7	0.036	15	0.132	6	11	10.50	12.65	0.027
18 AWG											
R40001-1	18	2	7	0.045	15	0.144	10	14	6.669	8.035	0.036
R40018-1	18	2	7	0.045	20	0.144	10	14	6.669	8.035	0.036
R40048-1	18	3	7	0.045	20	0.153	15	20	6.669	8.035	0.036
R40049-1	18	4	7	0.045	20	0.166	20	28	6.669	8.035	0.036
R40015-1	18	6	7	0.045	20	0.212	30	41	6.669	8.035	0.036
R40052-1	18	8	7	0.045	20	0.230	40	53	6.669	8.035	0.036
R40054-1	18	10	7	0.045	20	0.262	50	64	6.669	8.035	0.036
R40024-1	18	12	7	0.045	20	0.271	60	75	6.669	8.035	0.036
16 AWG											
R50003-1	16	2	19	0.056	20	0.174	16	22	4.181	5.037	0.033
R50045-1	16	4	19	0.056	20	0.212	32	41	4.181	5.037	0.033

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

