

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

300V, 75°C, Multi-Conductor, 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. **Shield:** Aluminum foil shielded with 24 AWG drain wire
4. **Rip Cord:** Rip cord for ease of jacket removal
5. **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.	Insul. Thickness	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance
	AWG	No.	strands	inch	mil	mil	inch	lb / 1000ft	lb /1000ft	Ω /1000ft	Ω /1000ft	Ω/1000ft
22 AWG												
R20007-1	22	2	7	0.022	5	15	0.127	5	10	16.723	20.15	0.030
R20016-1	22	3	7	0.022	5	15	0.128	7	13	16.723	20.15	0.030
R20030-1	22	4	7	0.022	5	15	0.146	9	16	16.723	20.15	0.030
R20076-1	22	6	7	0.022	5	15	0.172	14	22	16.723	20.15	0.030
R20024-1	22	8	7	0.022	5	15	0.181	18	28	16.723	20.15	0.030
R20081-1	22	12	7	0.022	5	15	0.225	27	41	16.723	20.15	0.030
R20084-1	22	15	7	0.022	5	15	0.232	33	47	16.723	20.15	0.030
20 AWG												
R30024-1	20	2	7	0.036	5	15	0.138	8	13	10.503	12.65	0.027
R30041-1	20	3	7	0.036	5	15	0.153	11	17	10.503	12.65	0.027
R30042-1	20	4	7	0.036	5	15	0.159	14	21	10.503	12.65	0.027
18 AWG												
R40013-1	18	2	7	0.045	5	15	0.161	11	16	6.669	8.035	0.036
R40003-1	18	3	7	0.045	5	15	0.171	16	23	6.669	8.035	0.036
R40005-1	18	4	7	0.045	5	15	0.18	21	30	6.669	8.035	0.036
R40611-1	18	6	7	0.045	5	15	0.214	31	42	6.669	8.035	0.036
R40014-1	18	8	7	0.045	5	15	0.229	41	54	6.669	8.035	0.036
R40098-1	18	10	7	0.045	5	15	0.268	51	66	6.669	8.035	0.036
R40075-1	18	12	7	0.045	5	15	0.277	61	78	6.669	8.035	0.036
16 AWG												
A50039-1	16	2	19	0.056	5	15	0.191	17	25	4.181	5.037	0.033
R50044-1	16	3	19	0.056	5	15	0.193	25	33	4.181	5.037	0.033
R50031-1	16	4	19	0.056	5	15	0.212	33	43	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

