

# Fire Alarm/Control Cable™ Type MC – FPLP Fully Plenum Rated Technical Specifications

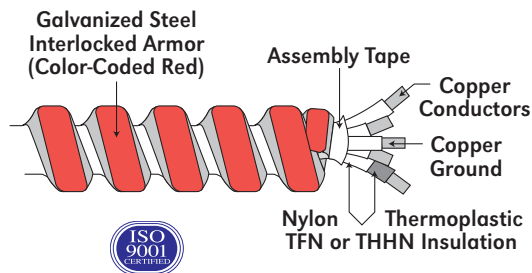


## Specification Description

Specification	Fire Alarm/Control Cable
Armor	Galvanized Interlocking Steel Strip (red-striped)
Conductors	Solid Copper
Conductor Insulation	TFN 18 & 16 AWG and/or THHN 14 & 12 AWG
Assembly	Polyester Assembly Tape; Twisted Shielded: Laminated Aluminum/Mylar® Shield with Tinned Copper drain wire
Maximum Temperature Rating	FPLP: 105°C (dry) MC: 90°C (dry)
Grounding	One or more grounding conductors may be bare or insulated green, see chart below
Neutral Conductor	White
Maximum Voltage Rating	300V (FPLP) 600V (MC)

## References & Ratings

- U.L. 66, 83, 1424, 1479, 1569, 1581, File Reference E80042
- NEC 300.22(C), 392, 330, 430.2, 518, 530, 645, 725, 760, 760.71(D)
- Federal Specification A-A-59544 (formerly J-C-30B)
- Cable Tray installations per NEC
- 1, 2 and 3-hour Through-Penetration Fire Wall Rated File R-14929
- NFPA 262 (formerly U.L. 910) Plenum Rated - Type FPLP



**For the electrical properties of Red Fire Alarm/Control Cable and twists per foot information, see page 39.**

## Product Codes, Trade Sizes, Conductors, Packaging & Weights

Product Code	Product Code			Trade Size	Grounding Conductor AWG	Approx. Weight/1000 Feet (lbs.)	Armor Minimum O.D. (inches)
	250' Coil	500' Reel	750' Reel				
<b>Solid TFN</b>							
1801R42-00	1801R45-00	1801R47-00	1801R60-00	18-2 Solid (black, white)	18 bare	115	0.410
1803R42-00	1803R45-00	1803R47-00	1803R60-00	18-4 Solid (black, white, red, blue)	18 bare	130	0.430
1805R42-00	1805R45-00	1805R47-00	1805R60-00	18-6 Solid (black, white, red, blue, yellow, orange)	18 bare	170	0.490
1807R42-00	1807R45-00	1807R47-00	1807R60-00	18-8 Solid (black, white, red, blue, yellow, orange, brown, purple)	18 bare	190	0.510
1810R42-00	1810R45-00	1810R47-00	1810R60-00	16-2 Solid (black, white)	16 bare	130	0.420
1813R42-00	1813R45-00	1813R47-00	1813R60-00	16-4 Solid (black, white, red, blue)	16 bare	155	0.440
1815R42-00	1815R45-00	1815R47-00	1815R60-00	16-6 Solid (black, white, red, blue, yellow, orange)	16 bare	205	0.510
1817R42-00	1817R45-00	1817R47-00	—	16-8 Solid (black, white, red, blue, yellow, orange, brown, purple)	16 bare	230	0.520
<b>Solid THHN</b>							
1834R42-00	1834R45-00	1834R47-00	1834R60-00	14-2 Solid (black, white)	14 (solid green)	175	0.470
1837R42-00	1837R45-00	1837R47-00	1837R60-00	14-4 Solid (black, white, red, blue)	14 (solid green)	230	0.510
1823R42-00	1823R45-00	—	—	14-6 Solid (black, white, red, blue, yellow, orange)	14 (solid green)	250	0.520
1824R42-00	1824R45-00	—	—	14-8 Solid (black, white, red, blue, yellow, orange, brown, purple)	14 (solid green)	325	0.585
1835R42-00	1835R45-00	1835R47-00	1835R60-00	12-2 Solid (black, white)	12 (solid green)	215	0.495
1840R42-00	1840R45-00	—	1840B60-00	12-4 Solid (black, white, red, blue)	12 (solid green)	295	0.565
<b>Twisted Shielded Pairs</b>							
1850R42-00	1850R45-00	1850R47-00	1850R60-00	18-2 Solid (1 pair) (black, white)	18 tinned <sup>†</sup>	120	0.420
1827R42-00	1827R45-00	1827R47-00	1827R60-00	18-2 Solid (1 pair) (black, red) & 14-2 Solid (1 pair) (black, white)	18 & 14 tinned <sup>†</sup>	290	0.640
1860R42-00	1860R45-00	1860R47-00	1860R60-00	16-2 Solid (1 pair) (black, white)	16 tinned <sup>†</sup>	135	0.430
1843R42-00	1843R45-00	1843R47-00	1843R60-00	16-4 Solid (2 pair) (black, white) (red, blue)	2-16 tinned <sup>†</sup>	160	0.450
1895R42-06	1895R45-06	1895R47-06	1895R60-06	16-2 Solid (1 pair) (black, red)	16 tinned <sup>†</sup> , & 16 (solid green)	190	0.500
4901R42-00	4901R45-00	4901R47-00	4901R60-00	16-2 Solid (1 pair) (black, white) & 12-2 Solid (1 pair) (black, red)	16 tinned <sup>†</sup> , & 12 (solid green)	280	0.585
1828R42-00	1828R45-00	1828R47-00	1828R60-00	14-2 Solid (1 pair) (black, white)	16 tinned <sup>†</sup> , & 14 (solid green)	170	0.470
1881R42-00	1881R45-00	—	—	14-4 Solid (2 pair) (black, red) (blue, white)	2-16 tinned <sup>†</sup> , & 14 (solid green)	230	0.565
<b>Specialty Colors</b>							
1834R42-05	1834R45-05	1834R47-05	1834R60-05	14-2 Solid (blue, white)	14 (solid green)	175	0.470
1834R42-06	1834R45-06	1834R47-06	1834R60-06	14-2 Solid (black, red)	14 (solid green)	175	0.470
1834R42-23	1834R45-23	1834R47-23	1834R60-23	14-2 Solid (orange, yellow)	14 (solid green)	175	0.470
1834R42-37	1834R45-37	1834R47-37	1834R60-37	14-2 Solid (brown, purple)	14 (solid green)	175	0.470
1834R42-44	1834R45-44	1834R47-44	1834R60-44	14-2 Solid (gray, gray*)	14 (solid green)	175	0.470
1837R42-05	1837R45-05	1837R47-05	1837R60-05	14-4 Solid (blue, blue*, white, white*)	14 (solid green)	230	0.510
1837R42-06	1837R45-06	1837R47-06	1837R60-06	14-4 Solid (black, black*, red, red*)	14 (solid green)	230	0.510

NOTE: All dimensions and weights are subject to normal manufacturing tolerances.

\* with silver stripe

† Tinned copper drain/grounding conductor.