

M27500 Cables—types RC and RE (M22759/11, /12 components)



Construction Details

Component wire conductor:

/11 component wires: Silver-plated copper;

/12 component wires: Nickel-plated copper.

Component wire insulation: Extruded PTFE.

Shield: Nickel- or silver-plated copper braid, 85% coverage.

Jacket: Extruded FEP or PTFE tape.

Colors: Color coded to M27500 (see page 67).

Certifications also available to NEMA WC27500.

M27500 RC and RE cables are shielded and jacketed cables with PTFE tape or extruded FEP jackets, incorporating MIL-W-22759/11 or /12 wires.

These component wires have extruded PTFE insulation and silver- or nickel-plated copper conductors.

PTFE tape jackets are available with our unique **Seamless Wrap** PTFE tape (see page 87 for details).

Performance:

Voltage rating: 600V.

Temperature ratings:

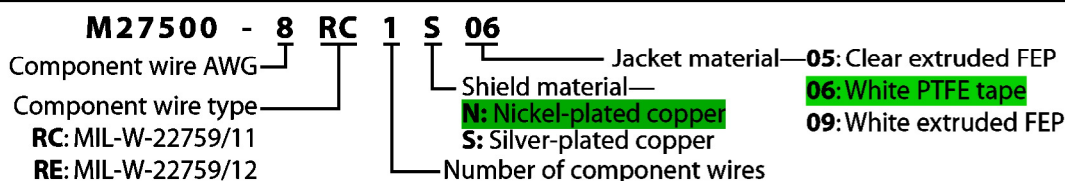
Cables with /11 component wires and either jacket: -55 to 200° C.

Cables with /12 component wires and PTFE jacket: -55 to 260° C.

Cables with /12 component wires and FEP jacket: -55 to 200° C.

See page 40 for component wire dimensions.

Part Numbers:



Dimensions and Weight—1 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
8 (133/29)	.222 (5.64)	.246 (6.25)	83.3 (124)
10 (37/26)	.155 (3.94)	.179 (4.55)	47.8 (71.1)
12 (19/25)	.127 (3.23)	.149 (3.78)	32.2 (47.9)
14 (19/27)	.106 (2.69)	.128 (3.25)	22.6 (33.6)
16 (19/29)	.091 (2.31)	.113 (2.87)	16.5 (24.6)
18 (19/30)	.084 (2.13)	.106 (2.69)	14.5 (21.6)
20 (19/32)	.074 (1.88)	.096 (2.44)	11.0 (16.4)
22 (19/34)	.065 (1.65)	.087 (2.21)	8.90 (13.2)
24 (19/36)	.059 (1.50)	.081 (2.06)	7.01 (10.4)
26 (19/38)	.054 (1.37)	.076 (1.93)	6.20 (9.23)
28 (7/36)	.049 (1.24)	.071 (1.80)	5.50 (8.19)

Dimensions and Weight—2 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
8 (133/29)	.432 (11.0)	.468 (11.9)	170 (253)
10 (37/26)	.298 (7.57)	.335 (8.51)	95.4 (142)
12 (19/25)	.238 (6.05)	.262 (6.65)	64.6 (96.1)
14 (19/27)	.196 (4.98)	.220 (5.59)	44.9 (66.8)
16 (19/29)	.166 (4.22)	.190 (4.83)	32.1 (47.8)
18 (19/30)	.152 (3.86)	.176 (4.47)	27.2 (40.5)
20 (19/32)	.132 (3.35)	.156 (3.96)	19.4 (28.9)
22 (19/34)	.114 (2.90)	.136 (3.45)	14.6 (21.7)
24 (19/36)	.102 (2.59)	.124 (3.15)	12.2 (18.2)
26 (19/38)	.092 (2.34)	.114 (2.90)	9.93 (14.8)
28 (7/36)	.082 (2.08)	.104 (2.64)	8.39 (12.5)

Dimensions and Weight—3 Conductor Cables*

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
8 (133/29)	.462 (11.7)	.498 (12.7)	248 (369)
10 (37/26)	.319 (8.10)	.356 (9.04)	138 (205)
12 (19/25)	.255 (6.47)	.280 (7.10)	90.9 (135)
14 (19/27)	.210 (5.32)	.234 (5.93)	61.7 (91.8)
16 (19/29)	.177 (4.50)	.201 (5.11)	43.7 (65.0)
18 (19/30)	.162 (4.12)	.186 (4.73)	37.0 (55.1)
20 (19/32)	.141 (3.57)	.163 (4.14)	26.2 (39.0)
22 (19/34)	.121 (3.08)	.143 (3.63)	19.3 (28.7)
24 (19/36)	.108 (2.75)	.132 (3.36)	15.5 (23.1)
26 (19/38)	.098 (2.48)	.122 (3.09)	12.9 (19.2)
28 (7/36)	.087 (2.21)	.109 (2.77)	10.2 (15.2)

Dimensions and Weight—4 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
8 (133/29)	.515 (13.1)	.551 (14.0)	340 (506)
10 (37/26)	.355 (9.02)	.391 (9.93)	179 (266)
12 (19/25)	.288 (7.30)	.324 (8.22)	120 (179)
14 (19/27)	.233 (5.92)	.257 (6.53)	78.6 (117)
16 (19/29)	.197 (5.00)	.221 (5.61)	52.6 (78.3)
18 (19/30)	.180 (4.57)	.204 (5.18)	46.5 (69.2)
20 (19/32)	.156 (3.96)	.184 (4.67)	34.4 (51.2)
22 (19/34)	.134 (3.41)	.156 (3.96)	23.9 (35.6)
24 (19/36)	.120 (3.04)	.142 (3.61)	19.0 (28.3)
26 (19/38)	.108 (2.73)	.130 (3.30)	15.4 (22.9)
28 (7/36)	.096 (2.43)	.118 (3.00)	12.3 (18.3)

Dimensions in inches (mm). Weights in pounds/1000 feet (Kg/1000 M). All values are nominal. *Using factors from a circumscribed circle per M27500.

