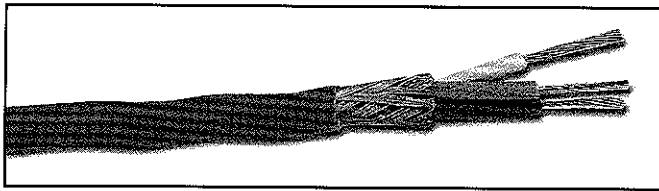


M27500 Cables—types TG and TH (M22759/18, /19 components)



Construction Details

Component wire conductor:

/18 component wires: Tin-plated copper;
/19 component wires: Silver-plated high-strength copper alloy.

Component wire insulation: Thin-wall extruded ETFE.

Shield: Tin-plated copper braid, 85% coverage.

Jacket: Extruded ETFE.

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

Certifications also available to NEMA WC27500.

M27500 TG and TH cables are shielded and jacketed cables with extruded ETFE (Ethylene Tetrafluoroethylene) jackets, incorporating MIL-W-22759/18 or /19 wires.

These component wires are insulated with thin-wall extruded ETFE for weight and space savings, and have either tin-plated copper or silver-plated high-strength copper alloy conductors.

Performance:

Voltage rating: 600V.

Temperature rating: -55 to 150° C.

See page 42 for component wire dimensions.

Part Numbers:

M27500 - 10 TG 1 T 14

Component wire AWG — 10
Component wire type — TG: MIL-W-22759/18
TH: MIL-W-22759/19
Shield material — T: Tin-plated copper
Number of component wires — 14
Jacket material — 14: Extruded white ETFE
15: Extruded clear ETFE

Dimensions and Weight—1 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.150 (3.81)	.172 (4.37)	43.5 (64.7)
12 (37/28)	.123 (3.12)	.143 (3.63)	29.8 (44.3)
14 (19/27)	.101 (2.57)	.121 (3.07)	20.8 (31.0)
16 (19/29)	.086 (2.18)	.106 (2.69)	14.9 (22.2)
18 (19/30)	.077 (1.96)	.097 (2.46)	11.9 (17.7)
20 (19/32)	.067 (1.70)	.087 (2.21)	9.21 (13.7)
22 (19/34)	.059 (1.50)	.079 (2.01)	6.76 (10.1)
24 (19/36)	.052 (1.32)	.072 (1.83)	5.66 (8.42)
26 (19/38)	.048 (1.22)	.068 (1.73)	5.21 (7.75)

Dimensions and Weight—2 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.288 (7.32)	.313 (7.95)	91.3 (136)
12 (37/28)	.230 (5.84)	.255 (6.48)	58.8 (87.5)
14 (19/27)	.186 (4.72)	.211 (5.36)	39.8 (59.2)
16 (19/29)	.156 (3.96)	.181 (4.60)	28.2 (42.0)
18 (19/30)	.138 (3.51)	.160 (4.06)	23.1 (34.4)
20 (19/32)	.118 (3.00)	.140 (3.56)	17.5 (26.0)
22 (19/34)	.102 (2.59)	.124 (3.15)	12.4 (18.5)
24 (19/36)	.088 (2.24)	.110 (2.79)	9.29 (13.8)
26 (19/38)	.080 (2.03)	.102 (2.59)	8.05 (12.0)

Dimensions and Weight—3 Conductor Cables*

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.308 (7.83)	.345 (8.76)	129 (192)
12 (37/28)	.246 (6.25)	.275 (6.99)	83.1 (124)
14 (19/27)	.199 (5.05)	.227 (5.77)	55.7 (82.9)
16 (19/29)	.167 (4.25)	.195 (4.95)	39.4 (58.6)
18 (19/30)	.147 (3.74)	.169 (4.29)	30.9 (46.0)
20 (19/32)	.126 (3.19)	.148 (3.76)	22.2 (33.0)
22 (19/34)	.108 (2.75)	.130 (3.30)	16.5 (24.6)
24 (19/36)	.093 (2.37)	.115 (2.92)	12.3 (18.3)
26 (19/38)	.085 (2.15)	.107 (2.72)	9.84 (14.6)

Dimensions and Weight—4 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.343 (8.71)	.382 (9.70)	169 (252)
12 (37/28)	.278 (7.06)	.304 (7.72)	111 (165)
14 (19/27)	.221 (5.61)	.246 (6.24)	71.6 (107)
16 (19/29)	.185 (4.69)	.213 (5.41)	49.3 (73.4)
18 (19/30)	.163 (4.14)	.191 (4.85)	39.9 (59.4)
20 (19/32)	.139 (3.53)	.161 (4.09)	27.2 (40.5)
22 (19/34)	.120 (3.04)	.142 (3.61)	19.8 (29.5)
24 (19/36)	.103 (2.61)	.125 (3.18)	15.3 (22.8)
26 (19/38)	.093 (2.37)	.115 (2.92)	12.1 (18.0)

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