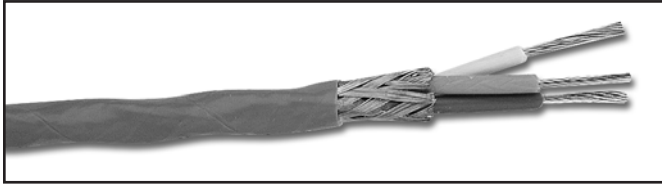


M27500 Cables—types MR and MS (M81381/7, /8 components)



Construction Details

Component wire conductor:

/7 component wires: Silver-plated copper;
/8 component wires: Nickel-plated copper.

Component wire insulation:

Two layers of FEP/polyimide/FEP tape with modified aromatic polyimide coating.

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

Jacket: Natural polyimide/FEP tape, wrapped and heat sealed, with polyimide outer surface.

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

Certifications also available to NEMA WC27500.

M27500 MR and MS cables are shielded and jacketed cables with a jacket of FEP/polyimide tape, incorporating MIL-DTL-81381/7 or /8 wires.

These component wires have a light-weight insulation of two layers of FEP/polyimide/FEP tape with a polyimide hard coat for increased cut-through and abrasion resistance, and silver- or nickel-plated copper conductors.

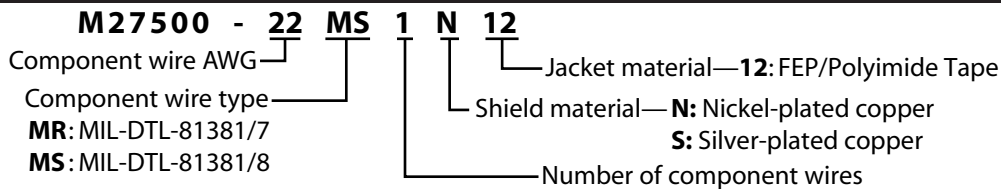
Performance:

Voltage rating: 600V.

Temperature rating: -55 to 200° C.

See page 58 for component wire dimensions.

Part Numbers:



Dimensions and Weight—1 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.138 (3.51)	.147 (3.72)	37.9(56.46)
12 (37/28)	.115 (2.92)	.124 (3.14)	25.7(38.19)
14 (19/27)	.096 (2.44)	.105 (2.66)	17.7(26.40)
16 (19/29)	.083 (2.11)	.092 (2.33)	12.5(18.62)
18 (19/30)	.077 (1.96)	.086 (2.18)	10.6(15.71)
20 (19/32)	.067 (1.70)	.076 (1.92)	8.23(12.25)
22 (19/34)	.059 (1.50)	.068 (1.72)	5.82 (8.65)
24 (19/36)	.052 (1.32)	.061 (1.54)	4.84 (7.20)
26 (19/38)	.049 (1.24)	.058 (1.46)	4.31 (6.41)

Dimensions and Weight—2 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.260 (6.60)	.269 (6.82)	74.2 (110)
12 (37/28)	.214 (5.44)	.223 (5.66)	50.2 (74.8)
14 (19/27)	.176 (4.47)	.185 (4.69)	34.0 (50.6)
16 (19/29)	.150 (3.81)	.159 (4.03)	23.7 (35.3)
18 (19/30)	.138 (3.51)	.147 (3.72)	19.7 (29.4)
20 (19/32)	.118 (3.00)	.127 (3.22)	14.3 (21.3)
22 (19/34)	.102 (2.59)	.111 (2.81)	10.8 (16.1)
24 (19/36)	.088 (2.24)	.097 (2.45)	7.96 (11.8)
26 (19/38)	.082 (2.08)	.091 (2.30)	6.85 (10.2)

Dimensions and Weight—3 Conductor Cables*

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.282 (7.17)	.291 (7.39)	110 (164)
12 (37/28)	.229 (5.81)	.237 (6.03)	71.4 (106)
14 (19/27)	.188 (4.78)	.197 (4.99)	48.0 (71.5)
16 (19/29)	.160 (4.07)	.169 (4.28)	33.0 (49.1)
18 (19/30)	.147 (3.74)	.156 (3.96)	27.3 (40.6)
20 (19/32)	.126 (3.19)	.134 (3.41)	19.5 (29.0)
22 (19/34)	.108 (2.75)	.117 (2.97)	13.9 (20.7)
24 (19/36)	.093 (2.37)	.102 (2.59)	10.7 (15.9)
26 (19/38)	.087 (2.21)	.096 (2.43)	8.41 (12.5)

Dimensions and Weight—4 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.314 (7.98)	.327 (8.29)	145 (216)
12 (37/28)	.259 (6.58)	.267 (6.79)	95.8 (143)
14 (19/27)	.209 (5.31)	.217 (5.52)	62.2 (92.6)
16 (19/29)	.177 (4.50)	.186 (4.73)	42.3 (63.0)
18 (19/30)	.163 (4.14)	.172 (4.36)	35.0 (52.1)
20 (19/32)	.139 (3.53)	.148 (3.75)	24.7 (36.8)
22 (19/34)	.120 (3.05)	.128 (3.26)	18.1 (27.0)
24 (19/36)	.103 (2.62)	.111 (2.83)	12.8 (19.0)
26 (19/38)	.096 (2.44)	.104 (2.65)	10.5 (15.7)

M27500 Cables—types MT and MV (M81381/9, /10 components)

M27500 MT and MV cables are shielded and jacketed cables with a jacket of FEP/polyimide tape, incorporating MIL-DTL-81381/9 or /10 wires.

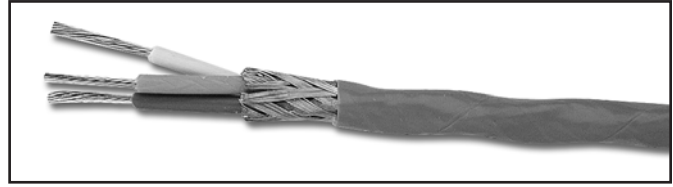
These component wires have a light-weight insulation of two layers of FEP/polyimide/FEP tape with a polyimide hard coat for increased cut-through and abrasion resistance, and silver- or nickel-plated high-strength copper alloy conductors.

Performance:

Voltage rating: 600V.

Temperature rating: -55 to 200° C.

See page 59 for component wire dimensions.



Construction Details

Component wire conductor:

/9 component wires: Silver-plated high-strength copper alloy;

/10 component wires: Nickel-plated high-strength copper alloy.

Component wire insulation:

Two layers of FEP/polyimide/FEP tape with modified aromatic polyimide coating.

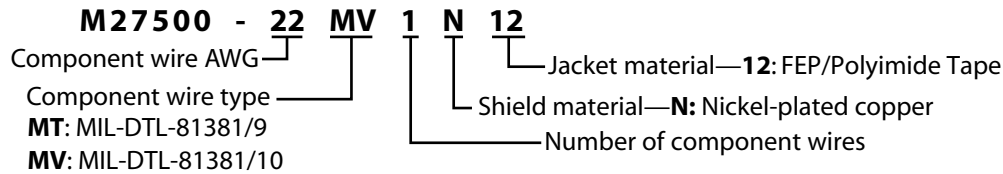
Shield: Nickel-plated copper braid, 85% coverage.

Jacket: Natural polyimide/FEP tape, wrapped and heat sealed, with polyimide outer surface.

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

Certifications also available to NEMA WC27500.

Part Numbers:



Dimensions and Weight—1 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
20 (19/32)	.067 (1.70)	.076 (1.92)	8.23 (12.25)
22 (19/34)	.059 (1.50)	.068 (1.72)	5.82 (8.65)
24 (19/36)	.052 (1.32)	.061 (1.54)	4.84 (7.20)
26 (19/38)	.049 (1.24)	.058 (1.46)	4.31 (6.41)

Dimensions and Weight—2 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
20 (19/32)	.118 (3.00)	.127 (3.22)	14.3 (21.3)
22 (19/34)	.102 (2.59)	.111 (2.81)	10.8 (16.1)
24 (19/36)	.088 (2.24)	.097 (2.45)	7.96 (11.8)
26 (19/38)	.082 (2.08)	.091 (2.30)	6.85 (10.2)

Dimensions and Weight—3 Conductor Cables*

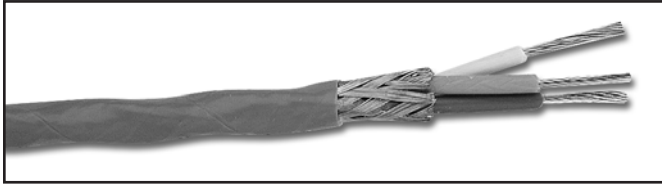
Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
20 (19/32)	.126 (3.19)	.134 (3.41)	19.5 (29.0)
22 (19/34)	.108 (2.75)	.117 (2.97)	13.9 (20.7)
24 (19/36)	.093 (2.37)	.102 (2.59)	10.7 (15.9)
26 (19/38)	.087 (2.21)	.096 (2.43)	8.41 (12.5)

Dimensions and Weight—4 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
20 (19/32)	.139 (3.53)	.148 (3.75)	24.7 (36.8)
22 (19/34)	.120 (3.05)	.128 (3.26)	18.1 (27.0)
24 (19/36)	.103 (2.62)	.111 (2.83)	12.8 (19.0)
26 (19/38)	.096 (2.44)	.104 (2.65)	10.5 (15.7)

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

M27500 Cables—types MW and MY (M81381/11, /12 components)



Construction Details

Component wire conductor:

/11 component wires: Silver-plated copper;
/12 component wires: Nickel-plated copper.

Component wire insulation:

Polyimide/FEP tape (inner layer);
FEP/polyimide/FEP tape (second layer);
Modified aromatic polyimide coating (outer layer).

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

Jacket: Natural polyimide/FEP tape, wrapped and heat sealed, with polyimide outer surface.

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

Certifications also available to NEMA WC27500.

M27500 MW and MY cables are shielded and jacketed cables with a jacket of FEP/polyimide tape, incorporating MIL-DTL-81381/11 or /12 wires.

These component wires have a medium-weight insulation of three layers: polyimide/FEP tape, FEP/polyimide/FEP tape, and an outer coating of modified aromatic polyimide.

The component wires have silver- or nickel-plated copper conductors.

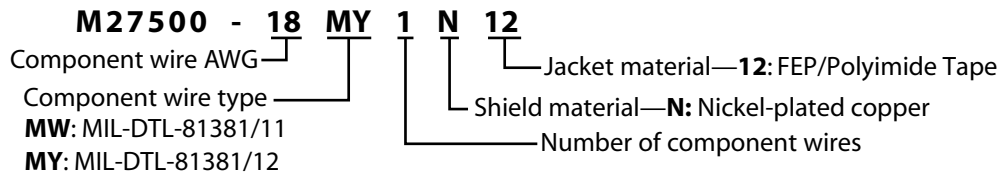
Performance:

Voltage rating: 600V.

Temperature rating: -55 to 200° C.

See page 60 for component wire dimensions.

Part Numbers:



Dimensions and Weight—1 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.141 (3.58)	.150 (3.80)	39.4 (58.7)
12 (37/28)	.119 (3.02)	.128 (3.24)	26.7 (39.8)
14 (19/27)	.100 (2.54)	.109 (2.76)	18.8 (27.9)
16 (19/29)	.087 (2.21)	.096 (2.43)	13.6 (20.3)
18 (19/30)	.081 (2.06)	.090 (2.28)	11.4 (17.0)
20 (19/32)	.071 (1.80)	.080 (2.02)	8.52 (12.7)
22 (19/34)	.063 (1.60)	.072 (1.82)	6.37 (9.47)
24 (19/36)	.058 (1.47)	.067 (1.69)	5.16 (7.67)

Dimensions and Weight—2 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.266 (6.76)	.275 (6.98)	77.4 (115)
12 (37/28)	.222 (5.64)	.231 (5.86)	52.1 (77.5)
14 (19/27)	.184 (4.67)	.193 (4.89)	36.1 (53.8)
16 (19/29)	.158 (4.01)	.167 (4.23)	25.8 (38.4)
18 (19/30)	.146 (3.71)	.155 (3.93)	21.5 (32.1)
20 (19/32)	.126 (3.20)	.135 (3.42)	15.5 (23.0)
22 (19/34)	.110 (2.79)	.119 (3.01)	11.4 (17.0)
24 (19/36)	.100 (2.54)	.109 (2.76)	9.34 (13.9)

Dimensions and Weight—3 Conductor Cables*

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.289 (7.33)	.297 (7.55)	115 (171)
12 (37/28)	.237 (6.03)	.246 (6.25)	74.1 (110)
14 (19/27)	.197 (4.99)	.205 (5.21)	51.5 (76.6)
16 (19/29)	.169 (4.28)	.177 (4.50)	35.2 (52.3)
18 (19/30)	.156 (3.96)	.164 (4.18)	29.7 (44.1)
20 (19/32)	.134 (3.41)	.143 (3.63)	21.0 (31.3)
22 (19/34)	.117 (2.97)	.126 (3.19)	15.5 (23.0)
24 (19/36)	.106 (2.70)	.116 (2.92)	11.8 (17.5)

Dimensions and Weight—4 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.321 (8.15)	.334 (8.48)	151 (225)
12 (37/28)	.268 (6.80)	.277 (7.03)	99.6 (148)
14 (19/27)	.218 (5.54)	.227 (5.77)	66.1 (98.3)
16 (19/29)	.187 (4.75)	.196 (4.97)	45.2 (67.3)
18 (19/30)	.173 (4.39)	.181 (4.60)	37.8 (56.2)
20 (19/32)	.149 (3.78)	.157 (3.99)	26.7 (39.7)
22 (19/34)	.129 (3.28)	.138 (3.50)	19.4 (28.9)
24 (19/36)	.117 (2.91)	.126 (3.20)	14.7 (21.9)

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

M27500 Cables—types NA and NB (M81381/13, /14 components)

M27500 NA and NB cables are shielded and jacketed cables with a jacket of FEP/polyimide tape, incorporating MIL-DTL-81381/13 or /14 wires.

These component wires have a medium-weight insulation of two layers of FEP/polyimide/FEP tape with a polyimide hard coat for increased cut-through and abrasion resistance.

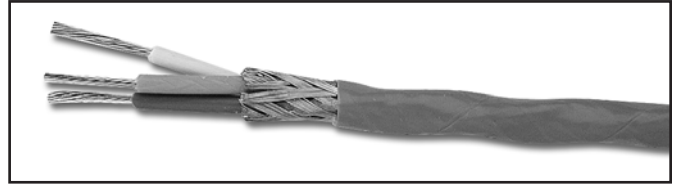
The component wires have silver- or nickel-plated high-strength copper alloy conductors.

Performance:

Voltage rating: 600V.

Temperature rating: -55 to 200° C.

See page 61 for component wire dimensions.



Construction Details

Component wire conductor:

/13 component wires: Silver-plated high-strength copper alloy;

/14 component wires: Nickel-plated high-strength copper alloy.

Component wire insulation:

Two layers of FEP/polyimide/FEP tape with modified aromatic polyimide coating.

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

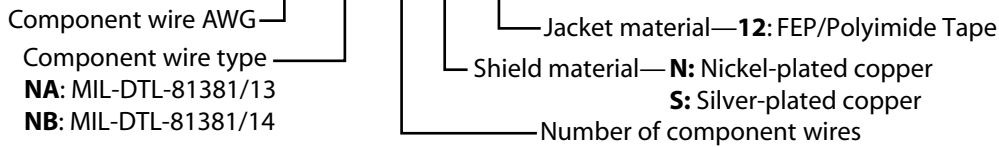
Jacket: Natural polyimide/FEP tape, wrapped and heat sealed, with polyimide outer surface.

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

Certifications also available to NEMA WC27500.

Part Numbers:

M27500 - 22 NB 1 N 12



Dimensions and Weight—1 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
20 (19/32)	.071 (1.80)	.080 (2.02)	8.52 (12.7)
22 (19/34)	.063 (1.60)	.072 (1.82)	6.37 (9.47)
24 (19/36)	.058 (1.47)	.067 (1.69)	5.16 (7.67)

Dimensions and Weight—2 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
20 (19/32)	.126 (3.20)	.135 (3.42)	15.5 (23.0)
22 (19/34)	.110 (2.79)	.119 (3.01)	11.4 (17.0)
24 (19/36)	.100 (2.54)	.109 (2.76)	9.34 (13.9)

Dimensions and Weight—3 Conductor Cables*

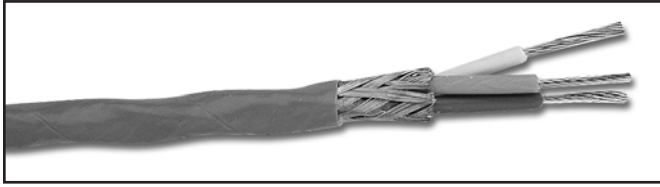
Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
20 (19/32)	.134 (3.41)	.143 (3.63)	21.0 (31.3)
22 (19/34)	.117 (2.97)	.126 (3.19)	15.5 (23.0)
24 (19/36)	.106 (2.70)	.116 (2.92)	11.8 (17.5)

Dimensions and Weight—4 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
20 (19/32)	.149 (3.78)	.157 (3.99)	26.7 (39.7)
22 (19/34)	.129 (3.28)	.138 (3.50)	19.4 (28.9)
24 (19/36)	.117 (2.91)	.126 (3.20)	14.7 (21.9)

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

M27500 Cables—types NE and NF (M81381/17, /18 components)



Construction Details

Component wire conductor:

/17 component wires: Silver-plated copper;
/18 component wires: Nickel-plated copper.

Component wire insulation:

FEP/polyimide/FEP tape with modified aromatic polyimide coating.

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

Jacket: Natural polyimide/FEP tape, wrapped and heat sealed, with polyimide outer surface.

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

Certifications also available to NEMA WC27500.

M27500 NE and NF cables are shielded and jacketed cables with a jacket of FEP/polyimide tape, incorporating MIL-DTL-81381/17 or /18 wires.

These component wires have a light-weight insulation of FEP/polyimide/FEP tape with an outer coating of modified aromatic polyimide.

The component wires have silver- or nickel-plated copper conductors.

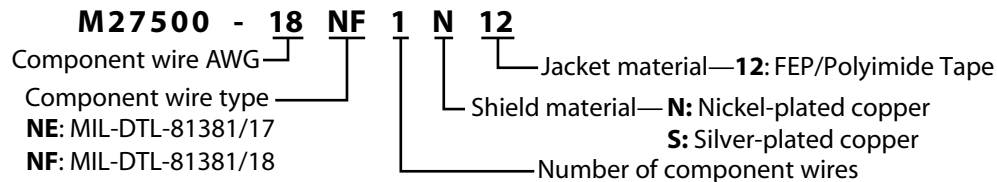
Performance:

Voltage rating: 600V.

Temperature rating: -55 to 200° C.

See page 62 for component wire dimensions.

Part Numbers:



Dimensions and Weight—1 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
12 (37/28)	.112 (2.84)	.121 (3.06)	25.1 (37.3)
14 (19/27)	.093 (2.36)	.102 (2.58)	17.4 (26.0)
16 (19/29)	.080 (2.03)	.089 (2.25)	12.1 (18.0)
18 (19/30)	.073 (1.85)	.082 (2.07)	10.4 (15.5)
20 (19/32)	.064 (1.63)	.073 (1.85)	7.53 (11.2)
22 (19/34)	.056 (1.42)	.065 (1.64)	5.71 (8.49)
24 (19/36)	.050 (1.27)	.059 (1.49)	4.79 (7.12)
26 (19/38)	.045 (1.14)	.054 (1.36)	4.14 (6.16)

Dimensions and Weight—2 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
12 (37/28)	.208 (5.28)	.217 (5.50)	48.6 (72.4)
14 (19/27)	.170 (4.32)	.179 (4.54)	33.7 (50.2)
16 (19/29)	.144 (3.66)	.153 (3.88)	22.9 (34.1)
18 (19/30)	.130 (3.30)	.139 (3.52)	19.4 (28.9)
20 (19/32)	.112 (2.84)	.121 (3.06)	13.8 (20.6)
22 (19/34)	.096 (2.44)	.105 (2.66)	9.93 (14.8)
24 (19/36)	.084 (2.13)	.093 (2.35)	7.84 (11.7)
26 (19/38)	.074 (1.88)	.083 (2.10)	5.90 (8.78)

Dimensions and Weight—3 Conductor Cables*

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
12 (37/28)	.222 (5.65)	.231 (5.87)	69.5 (103)
14 (19/27)	.182 (4.61)	.190 (4.83)	47.3 (70.4)
16 (19/29)	.154 (3.90)	.162 (4.12)	31.8 (47.4)
18 (19/30)	.139 (3.52)	.147 (3.74)	26.9 (40.0)
20 (19/32)	.119 (3.03)	.128 (3.25)	19.0 (28.2)
22 (19/34)	.102 (2.59)	.111 (2.81)	13.4 (19.9)
24 (19/36)	.089 (2.26)	.098 (2.48)	9.96 (14.8)
26 (19/38)	.078 (1.99)	.087 (2.21)	7.80 (11.6)

Dimensions and Weight—4 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
12 (37/28)	.251 (6.38)	.260 (6.60)	93.7 (139)
14 (19/27)	.202 (5.12)	.210 (5.34)	61.5 (91.5)
16 (19/29)	.170 (4.32)	.179 (4.54)	41.0 (61.0)
18 (19/30)	.153 (3.90)	.162 (4.12)	34.5 (51.3)
20 (19/32)	.132 (3.34)	.140 (3.56)	24.1 (35.9)
22 (19/34)	.112 (2.85)	.121 (3.07)	16.9 (25.2)
24 (19/36)	.098 (2.49)	.107 (2.71)	12.5 (18.7)
26 (19/38)	.086 (2.18)	.095 (2.40)	9.92 (14.8)

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

M27500 Cables—types NG and NH (M81381/19, /20 components)

M27500 NG and NH cables are shielded and jacketed cables with a jacket of FEP/polyimide tape, incorporating MIL-DTL-81381/19 or /20 wires.

These component wires have a light-weight insulation of FEP/polyimide/FEP tape with an outer coating of modified aromatic polyimide.

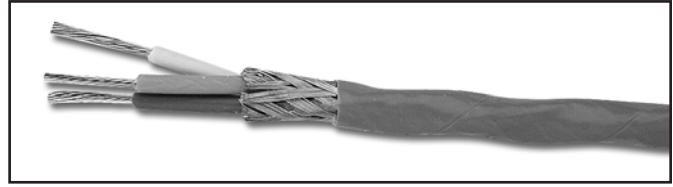
The component wires have silver- or nickel-plated high-strength copper alloy conductors.

Performance:

Voltage rating: 600V.

Temperature rating: -55 to 200° C.

See page 63 for component wire dimensions.



Construction Details

Component wire conductor:

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

/20 component wires: Nickel-plated high-strength copper alloy.

Component wire insulation:

FEP/polyimide/FEP tape with modified aromatic polyimide coating.

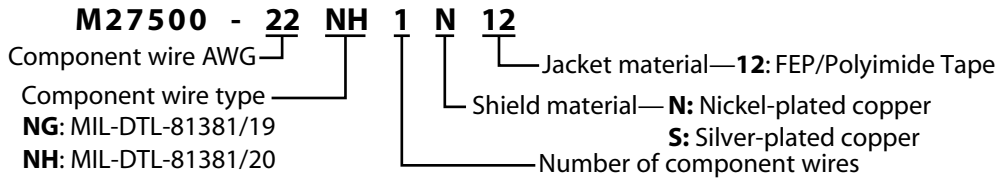
Shield: Nickel- or silver-plated copper braid, 85% coverage.

Jacket: Natural polyimide/FEP tape, wrapped and heat sealed, with polyimide outer surface.

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

Certifications also available to NEMA WC27500.

Part Numbers:



Dimensions and Weight—1 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
20 (19/32)	.064 (1.63)	.073 (1.85)	7.53 (11.2)
22 (19/34)	.056 (1.42)	.065 (1.64)	5.71 (8.49)
24 (19/36)	.050 (1.27)	.059 (1.49)	4.79 (7.12)
26 (19/38)	.045 (1.14)	.054 (1.36)	4.14 (6.16)

Dimensions and Weight—2 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
20 (19/32)	.112 (2.84)	.121 (3.06)	13.8 (20.6)
22 (19/34)	.096 (2.44)	.105 (2.66)	9.93 (14.8)
24 (19/36)	.084 (2.13)	.093 (2.35)	7.84 (11.7)
26 (19/38)	.074 (1.88)	.083 (2.10)	5.90 (8.78)

Dimensions and Weight—3 Conductor Cables*

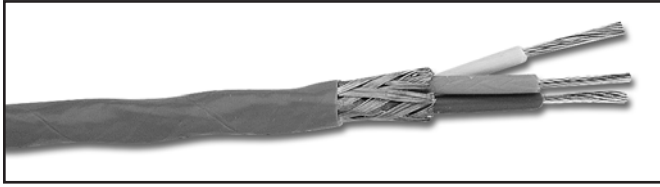
Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
20 (19/32)	.119 (3.03)	.128 (3.25)	19.0 (28.2)
22 (19/34)	.102 (2.59)	.111 (2.81)	13.4 (19.9)
24 (19/36)	.089 (2.26)	.098 (2.48)	9.96 (14.8)
26 (19/38)	.078 (1.99)	.087 (2.21)	7.80 (11.6)

Dimensions and Weight—4 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
20 (19/32)	.132 (3.34)	.140 (3.56)	24.1 (35.9)
22 (19/34)	.112 (2.85)	.121 (3.07)	16.9 (25.2)
24 (19/36)	.098 (2.49)	.107 (2.71)	12.5 (18.7)
26 (19/38)	.086 (2.18)	.095 (2.40)	9.92 (14.8)

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

M27500 Cables—type NK (M81381/21 components)



Construction Details

Component wire conductor: Tin-plated copper.

Component wire insulation:
Two layers of FEP/polyimide/FEP tape with modified aromatic polyimide coating.

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

Jacket: Natural polyimide/FEP tape, wrapped and heat sealed, with polyimide outer surface.

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

Certifications also available to NEMA WC27500.

M27500 NK cables are shielded and jacketed cables with a jacket of FEP/polyimide tape, incorporating MIL-DTL-81381/21 wires.

These component wires have an insulation of two layers of FEP/polyimide/FEP tape with a polyimide hard coat for increased cut-through and abrasion resistance.

The component wires have tin-plated copper conductors.

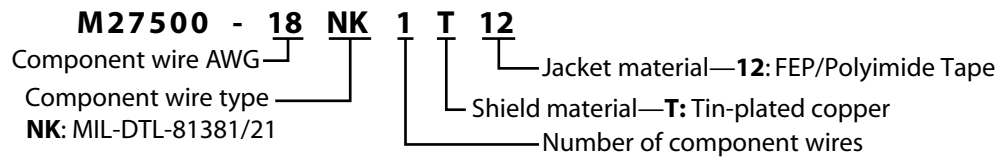
Performance:

Voltage rating: 600V.

Temperature rating: -55 to 150° C.

See page 64 for component wire dimensions.

Part Numbers:



Dimensions and Weight—1 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.138 (3.51)	.147 (3.72)	37.9 (56.46)
12 (37/28)	.115 (2.92)	.124 (3.14)	25.7 (38.19)
14 (19/27)	.096 (2.44)	.105 (2.66)	17.7 (26.40)
16 (19/29)	.083 (2.11)	.092 (2.33)	12.5 (18.62)
18 (19/30)	.077 (1.96)	.086 (2.18)	10.6 (15.71)
20 (19/32)	.067 (1.70)	.076 (1.92)	8.23 (12.25)
22 (19/34)	.059 (1.50)	.068 (1.72)	5.82 (8.65)
24 (19/36)	.052 (1.32)	.061 (1.54)	4.84 (7.20)
26 (19/38)	.049 (1.24)	.058 (1.46)	4.31 (6.41)

Dimensions and Weight—2 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.260 (6.60)	.269 (6.82)	74.2 (110)
12 (37/28)	.214 (5.44)	.223 (5.66)	50.2 (74.8)
14 (19/27)	.176 (4.47)	.185 (4.69)	34.0 (50.6)
16 (19/29)	.150 (3.81)	.159 (4.03)	23.7 (35.3)
18 (19/30)	.138 (3.51)	.147 (3.72)	19.7 (29.4)
20 (19/32)	.118 (3.00)	.127 (3.22)	14.3 (21.3)
22 (19/34)	.102 (2.59)	.111 (2.81)	10.8 (16.1)
24 (19/36)	.088 (2.24)	.097 (2.45)	7.96 (11.8)
26 (19/38)	.082 (2.08)	.091 (2.30)	6.85 (10.2)

Dimensions and Weight—3 Conductor Cables*

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.282 (7.17)	.291 (7.39)	110 (164)
12 (37/28)	.229 (5.81)	.237 (6.03)	71.4 (106)
14 (19/27)	.188 (4.78)	.197 (4.99)	48.0 (71.5)
16 (19/29)	.160 (4.07)	.169 (4.28)	33.0 (49.1)
18 (19/30)	.147 (3.74)	.156 (3.96)	27.3 (40.6)
20 (19/32)	.126 (3.19)	.134 (3.41)	19.5 (29.0)
22 (19/34)	.108 (2.75)	.117 (2.97)	13.9 (20.7)
24 (19/36)	.093 (2.37)	.102 (2.59)	10.7 (15.9)
26 (19/38)	.087 (2.21)	.096 (2.43)	8.41 (12.5)

Dimensions and Weight—4 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.314 (7.98)	.327 (8.29)	145 (216)
12 (37/28)	.259 (6.58)	.267 (6.79)	95.8 (143)
14 (19/27)	.209 (5.31)	.217 (5.52)	62.2 (92.6)
16 (19/29)	.177 (4.50)	.186 (4.73)	42.3 (63.0)
18 (19/30)	.163 (4.14)	.172 (4.36)	35.0 (52.1)
20 (19/32)	.139 (3.53)	.148 (3.75)	24.7 (36.8)
22 (19/34)	.120 (3.05)	.128 (3.26)	18.1 (27.0)
24 (19/36)	.103 (2.62)	.111 (2.83)	12.8 (19.0)
26 (19/38)	.096 (2.44)	.104 (2.65)	10.5 (15.7)

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

M27500 Cables—type NL (M81381/22 components)

M27500 NL cables are shielded and jacketed cables with a jacket of FEP/polyimide tape, incorporating MIL-DTL-81381/22 wires.

These component wires have an insulation of two layers of FEP/polyimide/FEP tape with a polyimide hard coat for increased cut-through and abrasion resistance.

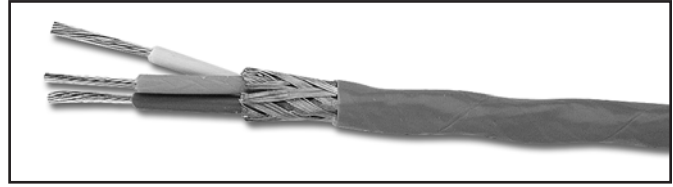
The component wires have tin-plated copper conductors.

Performance:

Voltage rating: 600V.

Temperature rating: -55 to 150° C.

See page 64 for component wire dimensions.



Construction Details

Component wire conductor: Tin-plated copper.

Component wire insulation: Two layers of FEP/polyimide/FEP tape with modified aromatic polyimide coating.

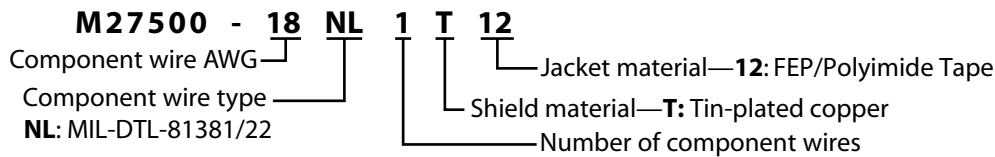
Shield: Tin-plated copper braid, 85% coverage.

Jacket: Natural polyimide/FEP tape, wrapped and heat sealed, with polyimide outer surface.

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

Certifications also available to NEMA WC27500.

Part Numbers:



Dimensions and Weight—1 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.141 (3.58)	.150 (3.80)	39.4 (58.7)
12 (37/28)	.119 (3.02)	.128 (3.24)	26.7 (39.8)
14 (19/27)	.100 (2.54)	.109 (2.76)	18.8 (27.9)
16 (19/29)	.087 (2.21)	.096 (2.43)	13.6 (20.3)
18 (19/30)	.081 (2.06)	.090 (2.28)	11.4 (17.0)
20 (19/32)	.071 (1.80)	.080 (2.02)	8.52 (12.7)
22 (19/34)	.063 (1.60)	.072 (1.82)	6.37 (9.47)
24 (19/36)	.058 (1.47)	.067 (1.69)	5.16 (7.67)

Dimensions and Weight—2 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.266 (6.76)	.275 (6.98)	77.4 (115)
12 (37/28)	.222 (5.64)	.231 (5.86)	52.1 (77.5)
14 (19/27)	.184 (4.67)	.193 (4.89)	36.1 (53.8)
16 (19/29)	.158 (4.01)	.167 (4.23)	25.8 (38.4)
18 (19/30)	.146 (3.71)	.155 (3.93)	21.5 (32.1)
20 (19/32)	.126 (3.20)	.135 (3.42)	15.5 (23.0)
22 (19/34)	.110 (2.79)	.119 (3.01)	11.4 (17.0)
24 (19/36)	.100 (2.54)	.109 (2.76)	9.34 (13.9)

Dimensions and Weight—3 Conductor Cables*

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.289 (7.33)	.297 (7.55)	115 (171)
12 (37/28)	.237 (6.03)	.246 (6.25)	74.1 (110)
14 (19/27)	.197 (4.99)	.205 (5.21)	51.5 (76.6)
16 (19/29)	.169 (4.28)	.177 (4.50)	35.2 (52.3)
18 (19/30)	.156 (3.96)	.164 (4.18)	29.7 (44.1)
20 (19/32)	.134 (3.41)	.143 (3.63)	21.0 (31.3)
22 (19/34)	.117 (2.97)	.126 (3.19)	15.5 (23.0)
24 (19/36)	.106 (2.70)	.116 (2.92)	11.8 (17.5)

Dimensions and Weight—4 Conductor Cables

Component Wire AWG (Stranding)	Shield Diameter	Jacket Diameter	Weight
10 (37/26)	.321 (8.15)	.334 (8.48)	151 (225)
12 (37/28)	.268 (6.80)	.277 (7.03)	99.6 (148)
14 (19/27)	.218 (5.54)	.227 (5.77)	66.1 (98.3)
16 (19/29)	.187 (4.75)	.196 (4.97)	45.2 (67.3)
18 (19/30)	.173 (4.39)	.181 (4.60)	37.8 (56.2)
20 (19/32)	.149 (3.78)	.157 (3.99)	26.7 (39.7)
22 (19/34)	.129 (3.28)	.138 (3.50)	19.4 (28.9)
24 (19/36)	.117 (2.91)	.126 (3.20)	14.7 (21.9)

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