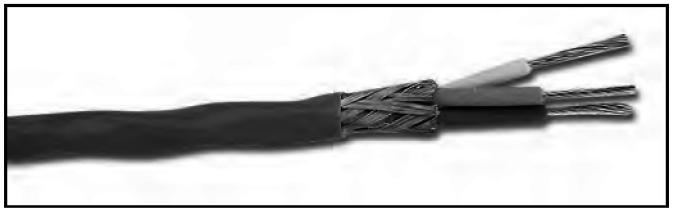
Type E Cables—MIL-W-16878/4 components



Construction Details

Component wire conductor:
Silver- or nickel-plated copper.

Component wire insulation: Extruded PTFE.

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

Jacket: Extruded FEP or PTFE tape.

Colors: Component wires color coded to MIL-STD-104; Jacket colors: White preferred; also available in 10 basic colors (see page 26).

Type E cables are shielded and jacketed cables with extruded FEP or PTFE tape jackets, incorporating MIL-W-16878/4 wires. These component wires are insulated with extruded PTFE, and have either silver-plated copper or nickel-plated copper conductors.

Cables with PTFE jackets are available with our unique ***Seamless Wrap*** PTFE tape (see page 2 for details).

Performance:

Voltage rating: 600V.

Temperature ratings:
Silver-plated conductors and either jacket: -55 to 200˚ C.
Nickel-plated conductors and PTFE jacket: -55 to 260˚ C.
Nickel-plated conductors and and FEP jacket: -55 to 200˚ C.

See page 27 for component wire dimensions.

Part Numbers:

10 - TE - 3726 (3) SXE

- **10** — Component wire AWG
- **TE** — Component wire: **TE**: Silver-plated copper; **TEN**: Nickel-plated copper
- **3726** — Component wire stranding (see tables)
- **(3)** — Number of component wires
- **SXE** — Jacket material—**STJ**: PTFE tape; **SXE**: extruded FEP

Dimensions and Weight—1 Conductor Cables

Component Wire		Shield Diameter		Jacket Diameter		Weight	
AWG	Stranding						
10	37/26	.161	(4.09)	.185	(4.70)	51.1	(76.0)
12	19/25	.125	(3.18	.147	(3.73)	34.9	(51.9)
14	19/27	.115	(2.92)	.137	(3.48)	25.2	(37.5)
16	19/29	.100	(2.54)	.122	(3.10)	18.0	(26.8)
18	19/30	.090	(2.29)	.110	(2.79)	15.7	(23.4)
20	19/32	.080	(2.03)	.100	(2.54)	11.8	(17.6)
22	19/34	.072	(1.83)	.092	(2.34)	9.69	(14.4)
24	19/36	.066	(1.68)	.086	(2.18)	8.55	(12.7)
26	19/38	.056	(1.42)	.076	(1.93)	6.30	(9.37)
28	7/36	.052	(1.32)	.072	(1.83)	5.14	(7.65)
30	7/38	.049	(1.24)	.069	(1.75)	4.78	(7.11)
32	7/40	.047	(1.19)	.067	(1.70)	4.49	(6.68)

Dimensions and Weight—2 Conductor Cables

Component Wire		Shield Diameter		Jacket Diameter		Weight	
AWG	Stranding						
10	37/26	.299	(7.59)	.329	(8.36)	98.0	(146)
12	19/25	.227	(5.77)	.251	(6.38)	66.5	(99.0)
14	19/27	.207	(5.26)	.231	(5.87)	46.5	(69.2)
16	19/29	.177	(4.50)	.199	(5.05)	33.4	(49.7)
18	19/30	.157	(3.99)	.179	(4.55)	27.8	(41.4)
20	19/32	.137	(3.48)	.159	(3.04)	21.3	(31.7)
22	19/34	.121	(3.07)	.143	(3.63)	16.5	(24.6)
24	19/36	.109	(2.77)	.131	(3.33)	13.8	(20.5)
26	19/38	.099	(2.51)	.121	(3.07)	11.7	(17.4)
28	7/36	.091	(2.31)	.113	(2.87)	9.56	(14.2)
30	7/38	.085	(2.16)	.107	(2.72)	8.73	(13.0)
32	7/40	.081	(2.06)	.103	(2.62)	6.71	(10.0)

Dimensions and Weight—3 Conductor Cables

Component Wire		Shield Diameter		Jacket Diameter		Weight	
AWG	Stranding						
10	37/26	.325	(8.25)	.357	(9.06)	140	(208)
12	19/25	.247	(6.28)	.273	(6.94)	94.0	(140)
14	19/27	.221	(5.61)	.245	(6.22)	64.3	(95.7)
16	19/29	.189	(4.79)	.213	(5.40)	46.1	(68.6)
18	19/30	.167	(4.24)	.189	(4.80)	37.7	(56.1)
20	19/32	.146	(3.70)	.168	(4.26)	28.2	(42.0)
22	19/34	.128	(3.26)	.150	(3.82)	21.6	(32.1)
24	19/36	.115	(2.93)	.137	(3.49)	17.3	(25.7)
26	19/38	.105	(2.66)	.127	(3.22)	14.8	(22.0)
28	7/36	.096	(2.44)	.118	(3.00)	11.8	(17.6)
30	7/38	.090	(2.28)	.112	(2.84)	10.5	(15.6)
32	7/40	.085	(2.17)	.107	(2.73)	9.36	(13.9)

Dimensions and Weight—4 Conductor Cables

Component Wire		Shield Diameter		Jacket Diameter		Weight	
AWG	Stranding						
10	37/26	.361	(9.16)	.393	(9.97)	180	(268)
12	19/25	.274	(6.96)	.302	(7.67)	122	(182)
14	19/27	.250	(6.34)	.276	(7.00)	82.7	(123)
16	19/29	.209	(5.30)	.235	(5.96)	58.1	(86.5)
18	19/30	.184	(4.69)	.206	(5.24)	47.3	(70.4)
20	19/32	.160	(4.07)	.182	(4.63)	35.0	(52.1)
22	19/34	.141	(3.58)	.163	(4.14)	26.3	(39.1)
24	19/36	.127	(3.22)	.149	(3.78)	21.2	(31.5)
26	19/38	.115	(2.91)	.137	(3.47)	17.8	(26.5)
28	7/36	.105	(2.67)	.127	(3.22)	14.1	(21.0)
30	7/38	.098	(2.48)	.120	(3.04)	12.6	(18.7)
32	7/40	.093	(2.36)	.115	(2.92)	11.5	(17.1)

Dimensions in inches (mm). Weights in pounds/1000 feet (Kg/1000 M). • All values nominal unless otherwise indicated. • Dimensions calculated using a circumscribed circle.