

## M17/MIL-C-17 Coaxial Cable Specifications

| M17 Part No.  | M17 QPL         | TMS Part No. | Conductor inches (mm)         | Dielectric inches (mm)  | Shields inches (mm)                    | Jacket inches (mm)                 | Armor inches (mm)         | Weight lb/ft (kg/m) | Impedance dms Vp (%) | Capacitance pF/ft (pF/m) | Max Oper. Voltage vrms | Temp. Range F (C)   | M17 Test Frequency | Comments                          |
|---------------|-----------------|--------------|-------------------------------|-------------------------|--|------------------------------------|---------------------------|---------------------|----------------------|--------------------------|------------------------|---------------------|--------------------|-----------------------------------|
| M17/167-00001 | 17-303-83       | AA-4649      | SC 0.035 (0.89)               | PE 0.116 (2.95)         | 36SC:36SC 0.162 (4.11)                 | PVC-IIA 0.212 (5.38)               | NA                        | 0.041 (0.061)       | 50 +/- 2 66          | 30.8 (101.1)             | 1,900                  | -40 +185 (-40 +85)  | 400 MHz UnSwept    | Unswept M17/84-RG223              |
| M17/168-00001 | 17-598-81       | AA-4650      | SC 7/0.028 0.084 (2.13)       | Taped PTFE 0.255 (6.48) | 34SC:34SC 0.313 (7.95)                 | FG Braid-V 0.415 (10.54)           | NA                        | 0.185 (0.276)       | 50 +/- 2 71          | 29.0 (95.1)              | 5,000                  | -67 +392 (-55 +200) | 400 MHz UnSwept    | Use M17/200-00001 LS/LT Jacket    |
| M17/168-00002 | 17-598-81       | AA-6306      | SC 7/0.028 0.084 (2.13)       | Taped PTFE 0.255 (6.48) | 34SC:34SC 0.313 (7.95)                 | FEP-IX 0.344 (8.74)                | NA                        | 0.185 (0.276)       | 50 +/- 2 71          | 29.0 (95.1)              | 5,000                  | -67 +392 (-55 +200) | 400 MHz UnSwept    | FEP Jacketed Unswept M17/92-RG115 |
| M17/169-00001 | 17-666-84       | AA-4651      | SCCS 7/0.004 0.012 (0.30)     | PTFE 0.033 (0.84)       | 38SC 0.051 (1.30)                      | FEP-IX 0.071 (1.80)                | NA                        | 0.006 (0.009)       | 50 +/- 2 69.5        | 29.4 (96.5)              | 1,000                  | -67 +392 (-55 +200) | 400 MHz UnSwept    | Unswept M17/93-RG178              |
| M17/170-00001 | 17-811-77       | AA-4652      | SCCS 0.037 (0.94)             | PTFE 0.116 (2.95)       | 36SC 0.139 (3.53)                      | FEP-IX 0.170 (4.32)                | NA                        | 0.039 (0.058)       | 50 +/- 2 69.5        | 29.4 (96.5)              | 1,900                  | -67 +392 (-55 +200) | 400 MHz UnSwept    | Unswept M17/111-RG303             |
| M17/171-00001 | 17-474-86       | AA-4653      | SCCS 0.0590 (1.50)            | PTFE 0.185 (4.70)       | 34SC:34SC 0.243 (6.17)                 | FEP-IX 0.280 (7.11)                | NA                        | 0.092 (0.138)       | 50 +/- 2 69.5        | 29.4 (96.5)              | 3,000                  | -67 +392 (-55 +200) | 400 MHz UnSwept    | Unswept M17/112-RG304             |
| M17/172-00001 | 17-812-77       | AA-4654      | SCCS 7/0.0067 0.0201 (0.51)   | PTFE 0.060 (1.52)       | 38SC 0.078 (1.98)                      | FEP-IX 0.098 (2.49)                | NA                        | 0.012 (0.017)       | 50 +/- 2 69.5        | 29.4 (96.5)              | 1,200                  | -67 +392 (-55 +200) | 400 MHz UnSwept    | Unswept M17/113-RG316             |
| M17/173-00001 | 17-813-77       | AA-4655      | CCS 7/0.0063 0.0189 (0.48)    | PE 0.060 (1.52)         | 38TC 0.078 (1.98)                      | PVC-IIA 0.110 (2.79)               | NA                        | 0.0095 (0.014)      | 50 +/- 2 66          | 30.8 (101.1)             | 1,500                  | -40 +185 (-40 +85)  | 400 MHz UnSwept    | Use M17/217-00001 LS/LT Jacket    |
| M17/174-00001 | 17-429-84       | AA-4656      | SC 7/0.0312 0.094 (2.39)      | PTFE 0.285 (7.24)       | 34SC:34SC 0.343 (8.71)                 | FEP-IX 0.390 (9.91)                | NA                        | 0.175 (0.261)       | 50 +/- 2 69.5        | 29.4 (96.5)              | 2,500                  | -67 +392 (-55 +200) | 400 MHz UnSwept    | Unswept M17/127-RG393             |
| M17/175-00001 | 17-671-83       | AA-4657      | SC 19/0.008 0.0384 (0.98)     | PTFE 0.116 (2.95)       | 36SC:36SC 0.162 (4.11)                 | FEP-IX 0.195 (4.95)                | NA                        | 0.050 (0.074)       | 50 +/- 2 69.5        | 29.4 (96.5)              | 1,900                  | -67 +392 (-55 +200) | 400 MHz UnSwept    | Unswept M17/128-RG400             |
| M17/176-00002 | Non-QPL'd       | AA-5127      | 2C:SPA 19/0.005 0.0235 (0.60) | PTFE 0.042 (1.07)       | 38SCBeCu 0.102 (2.59)                  | PFA-XIII 0.129 (3.28)              | NA                        | 0.018 (0.027)       | 77 +/- 3 71          | 24.0 (78.7)              | 1,000                  | -67 +392 (-55 +200) | 10 MHz UnSwept     | Use up to 10 MHz maximum          |
| M17/176-00003 | No QPL'd Source | NA           | 2C:SPA 19/0.005 0.0235 (0.60) | ETFE 0.042 (1.07)       | 38SCBeCu 0.102 (2.59)                  | PFA, FEP, ETFE, ETCFE 0.125 (3.18) | NA                        | 0.016 (0.024)       | 77 +/- 3 78          | 24.0 (78.7)              | 1,000                  | -67 +302 (-55 +150) | 10 MHz UnSwept     | Use up to 10 MHz maximum          |
| M17/177-00001 | 17-246-90       | AA-6513      | SCCS 7/0.004 0.012 (0.30)     | PTFE 0.102 (2.59)       | 38SC-FEP-38SC 0.159 (4.04)             | FEP-IX 0.184 (4.67)                | NA                        | 0.034 (0.051)       | 95 +/- 3 69.5        | 15.4 (50.5)              | 1,500                  | -67 +392 (-55 +200) | 3 GHz UnSwept      | Use up to 3000 MHz maximum        |
| M17/178-00001 | No QPL'd Source | NA           | SCCS 7/0.004 0.012 (0.30)     | PTFE 0.102 (2.59)       | 38SC:34NC Composite .170" 0.432 (11.0) | Polyester Braid 0.270 (6.86)       | NA                        | 0.060 (0.089)       | 95 +/- 5 69.5        | 15.4 (50.5)              | 1,500                  | -67 +302 (-55 +150) | 3 GHz UnSwept      | Use up to 3000 MHz maximum        |
| M17/179-00001 | No QPL'd Source | NA           | SCCS 7/0.004 0.012 (0.30)     | PTFE 0.063 (1.60)       | 38SC:34NC Composite .123" 0.312 (7.91) | Polyester Braid 0.195 (4.95)       | NA                        | 0.036 (0.054)       | 75 +/- 3 69.5        | 19.5 (64.0)              | 1,200                  | -67 +302 (-55 +150) | 3 GHz UnSwept      | Use up to 3000 MHz maximum        |
| M17/180-00001 | 17-05-92        | AA-7276      | CCS 0.0285 (0.72)             | PE 0.185 (4.70)         | 34SC-34BC 0.243 (6.17)                 | XLPE 0.332 (8.43)                  | NA                        | 0.092 (0.137)       | 75 +/- 3 66          | 20.6 (67.6)              | 2,700                  | -22 +176 (-30 +80)  | 3 GHz UnSwept      | Non-halogen Low smoke M17/2-RG6   |
| M17/181-00001 | 17-05-92        | AA-7277      | TC 7/0.0159 0.0477 (1.21)     | PE 0.285 (7.24)         | 33BC 0.318 (8.08)                      | XLPE 0.405 (10.29)                 | NA                        | 0.108 (0.161)       | 75 +/- 3 66          | 20.6 (67.6)              | 5,000                  | -22 +176 (-30 +80)  | 1 GHz UnSwept      | Non-halogen Low smoke M17/6-RG11  |
| M17/181-00002 | 17-05-92        | AA-7278      | TC 7/0.0159 0.0477 (1.21)     | PE 0.285 (7.24)         | 34BC 0.318 (8.08)                      | XLPE 0.405 (10.29)                 | Alum. Braid 0.475 (12.07) | 0.132 (0.197)       | 75 +/- 3 66          | 20.6 (67.6)              | 5,000                  | -22 +176 (-30 +80)  | 1 GHz UnSwept      | Armored M17/181-00001             |
| M17/182-00001 | 17-05-92        | AA-7279      | 2C:BC 7/0.0152 0.0456 (1.16)  | PE 0.285 (7.24)         | 34TC:34TC 0.343 (8.71)                 | XLPE 0.405 (10.67)                 | NA                        | 0.142 (0.212)       | 95 +/- 5 66          | 16.3 (53.5)              | 1,000                  | -22 +176 (-30 +80)  | 200 MHz UnSwept    | Non halogen Low smoke M17/15-RG22 |
| M17/182-00002 | 17-05-92        | AA-7280      | 2C:BC 7/0.0152 0.0456 (1.16)  | PE 0.285 (7.24)         | 34TC:34TC 0.343 (8.71)                 | XLPE 0.420 (10.67)                 | Alum. Braid 0.490 (12.45) | 0.169 (0.252)       | 95 +/- 5 66          | 16.3 (53.5)              | 1,000                  | -22 +176 (-30 +80)  | 200 MHz UnSwept    | Armored M17/182-00001             |
| M17/183-00001 | 17-05-92        | AA-7281      | TC 19/0.0072 0.0355 (0.90)    | PE 0.116 (2.95)         | 36TC 0.139 (3.53)                      | XLPE 0.195 (5.0)                   | NA                        | 0.030 (0.045)       | 50 +/- 2 66          | 30.8 (101.1)             | 1,900                  | -22 +176 (-30 +80)  | 0.05-1 GHz Swept   | Non-halogen Low smoke M17/28-RG58 |