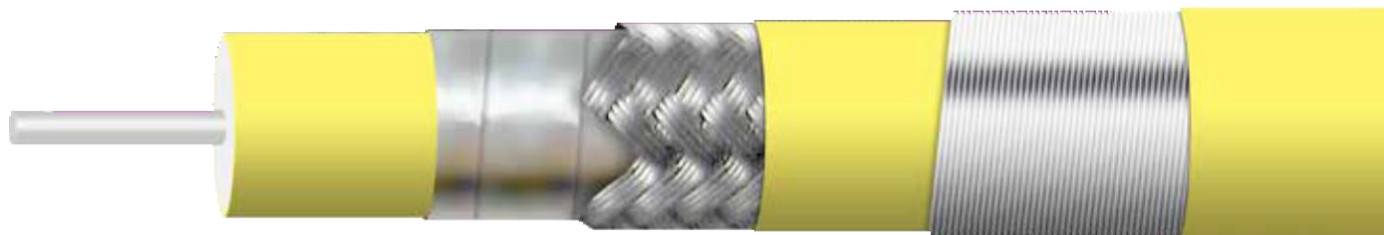


280 Series Operating Up to 18 GHz



| Center Conductor | Dielectric | Foil | Braid | Outer Jacket | Serving | Outer Jacket |
|---------------------------------------|------------|----------------------|----------------------|------------------------|------------|------------------------|
| Silver Plated Copper | EPTFE | Silver Plated Copper | Silver Plated Copper | FEP (7.74mm 0.305") | SCCS Armor | FEP (9.65mm 0.380") |
| 2801/2803 Solid 2806/2808 Stranded | | | | | | |

| | 2801 | 2806 | 2803 | 2808 |
|-------------------------------------|------------|------------|-----------|-----------|
| Electrical Characteristics | | | | |
| Impedance | 50 +/- 2Ω | 50 +/- 2Ω | 50 +/- 2Ω | 50 +/- 2Ω |
| Cut Off Frequency (cable only, max) | 19.5 GHz | 18GHz | 19.5 GHz | 18GHz |
| Capacitance | 24 pF/ft. | 24 pF/ft. | 24 pF/ft | 24 pF/ft |
| Velocity of Propagation | 83% | 83% | 83% | 83% |
| Time Delay | 1.22ns/ft. | 1.22ns/ft. | 1.22ns/ft | 1.22ns/ft |
| Shielding Effectiveness up to 18GHz | >90 dB | >90 dB | >90 dB | >90 dB |
| Power Handling | See Chart | See Chart | See Chart | See Chart |

Mechanical Characteristics:

| | | | | |
|---------------------------------|---------------------|---------------------|---------------------|---------------------|
| Weight | 1.40 oz/ft (130g/m) | 1.30 oz/ft (120g/m) | 2.50 oz/ft (230g/m) | 2.50 oz/ft (230g/m) |
| Minimum Bend Radius inches (mm) | 1" (25.4mm) | 1" (25.4mm) | 1" (25.4mm) | 1" (25.4mm) |

Environmental Characteristics:

| | | | | |
|--|----------------------|----------------------|----------------------|----------------------|
| Operating Temperature Range ¹ | -65°C to +165°C | -65°C to +165°C | -65°C to +165°C | -65°C to +165°C |
| RoHS (2002/95/EC) | Available on request | Available on request | Available on request | Available on request |

¹+200°C available on request

| | | | | |
|---|------------------|------------------|------------------|------------------|
| VSWR for assemblies with two straight connectors | 1.35:1 to 18 GHz | 1.35:1 to 18 GHz | 1.35:1 to 18 GHz | 1.35:1 to 18 GHz |
| VSWR for assemblies with one straight and one right angle connector | 1.40:1 to 18 GHz | 1.40:1 to 18 GHz | 1.40:1 to 18 GHz | 1.40:1 to 18 GHz |
| VSWR for assemblies with two right angle connectors | 1.45:1 to 18 GHz | 1.45:1 to 18 GHz | 1.45:1 to 18 GHz | 1.45:1 to 18 GHz |

Connector Types Available:

N, SMA, TNCA, SC

280 Series

Insertion Loss

| GHz | 2801/2803 | | | 2806/2808 | | |
|------|-----------|-------|-----------------------------------|-----------|-------|-----------------------------------|
| | dB/ft. | dB/m | Power(W) @ 20°C @ Sea Level | dB/ft. | dB/m | Power(W) @ 20°C @ Sea Level |
| 0.04 | 0.009 | 0.030 | 2500 | 0.010 | 0.033 | 2000 |
| 1 | 0.044 | 0.144 | 1900 | 0.051 | 0.167 | 1500 |
| 2 | 0.063 | 0.207 | 1350 | 0.072 | 0.236 | 1100 |
| 4 | 0.090 | 0.295 | 900 | 0.104 | 0.341 | 700 |
| 6 | 0.110 | 0.361 | 750 | 0.128 | 0.420 | 600 |
| 8 | 0.130 | 0.426 | 650 | 0.149 | 0.489 | 500 |
| 10 | 0.146 | 0.479 | 600 | 0.168 | 0.551 | 450 |
| 12 | 0.161 | 0.528 | 580 | 0.185 | 0.607 | 400 |
| 14 | 0.175 | 0.574 | 550 | 0.201 | 0.659 | 380 |
| 16 | 0.188 | 0.617 | 525 | 0.216 | 0.708 | 350 |
| 18 | 0.200 | 0.656 | 450 | 0.230 | 0.754 | 340 |

