| 50 OHM CABLES | | | H1500 | H1000 | H500 | H1001 | RG213 | H159 | H155 | RG58 |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Electrical Performance*** | | | | | | | | | | |
| Characteristic Impedance | | Ohm | 50 +/- 2 | 50 +/- 2 | 50 +/- 2 | 50 +/- 2 | 50 +/- 2 | 50 +/- 2 | 50 +/- 2 | 50 +/- 2 |
| Capacitance | | pF/m | 80 | 89 | 82 | 80 | 100 | 89 | 82 | 100 |
| Velocity Ratio | | | 0.83 | 0.83 | 0.81 | 0.83 | 0.66 | 0.75 | 0.81 | 0.66 |
| DC resistance | | Ohm/Km | 4.2 | 11 | 15 | 15 | 11 | 30 | 32 | 51 |
| Nominal attenuation at : | 10 MHz | dB/100m | 0.8 | 1.2 | 1.3 | 1.5 | 2.0 | 2.7 | 3.0 | 4.7 |
| | 50 MHz | dB/100m | 1.8 | 2.7 | 2.9 | 3.3 | 4.6 | 6.1 | 6.5 | 10.6 |
| | 100 MHz | dB/100m | 2.5 | 3.9 | 4.1 | 4.6 | 6.5 | 8.7 | 9.3 | 15.1 |
| | 230 MHz | dB/100m | 4.0 | 6.1 | 6.4 | 7.2 | 10.1 | 13.4 | 14.1 | 23.0 |
| | 300 MHz | dB/100m | 4.6 | 7.0 | 7.4 | 8.3 | 11.6 | 15.4 | 16.3 | 26.5 |
| | 470 MHz | dB/100m | 6.1 | 8.3 | 9.5 | 10.6 | 14.9 | 19.5 | 16.9 | 33.4 |
| | 600 MHz | dB/100m | 7.0 | 10.4 | 10.9 | 12.2 | 17.0 | 22.2 | 18.2 | 37.9 |
| | 860 MHz | dB/100m | 8.7 | 12.8 | 13.4 | 14.9 | 20.7 | 27.0 | 27.5 | 45.8 |
| | 1000 MHz | dB/100m | 9.5 | 13.9 | 14.6 | 16.2 | 22.6 | 29.3 | 30.9 | 49.6 |
| | 1350 MHz | dB/100m | 11.5 | 16.6 | 17.4 | 19.2 | 26.8 | 34.5 | 35.9 | 58.1 |
| | 1750 MHz | dB/100m | 13.6 | 19.4 | 20.3 | 22.4 | 31.1 | 39.8 | 42.3 | 66.8 |
| | 2150 MHz | dB/100m | 15.5 | 22.0 | 22.9 | 25.3 | 35.1 | 44.5 | 46.9 | 74.6 |
| Return Loss | 5 - 470 MHz | dB | > 23 | > 23 | > 23 | > 23 | > 20 | > 20 | > 23 | > 20 |
| | 470 - 862 MHz | dB | > 20 | > 20 | > 20 | > 20 | > 18 | > 18 | > 20 | > 18 |
| | 862 - 2150 MHz | dB | > 18 | > 18 | > 18 | > 18 | > 16 | > 16 | > 18 | > 16 |
| Screening attenuation | 30 - 1000 MHz | dB | > 95 | > 85 | > 85 | > 85 | > 65 | > 85 | > 85 | > 65 |
| | 1000 - 2150 Mhz | dB | >95 | >85 | >85 | >85 | >65 | >85 | >85 | >65 |
| ***Dimensions and construction*** | | | | | | | | | | |
| Inner conductor | | | bare copper | bare copper | bare copper | bare copper | bare copper | bare copper | bare copper | tinned copper |
| Diameter over inner conductor | | mm | 4.2 | 2.62 | 2.5 | 19 x 0.54 | 7 x 0.75 | 1.2 | 19 x 0.28 | 19 x 0.18 |
| Dielectric | | | FOAM | FOAM | FOAM | FOAM | solid PE | FOAM | FOAM | solid PE |
| Diameter over dielectric | | mm | 11.5 +/- 0.15 | 7.15 +/- 0.15 | 7.0 +/- 0.15 | 7.15 +/- 0.15 | 7.25 +/- 0.15 | 3.67 +/- 0.15 | 3.9 +/- 0.15 | 2.95 +/- 0.15 |
| Outer Conductor: | foil | | bare copper | bare copper | bare copper | copper-PET | - | Al Duofoil | AL Duofoil | - |
| | first braid | | bare copper | bare copper | bare copper | bare copper | bare copper | nned copper | tinned copper | tinned copper |
| | coverage | % | 60 | 50 | 50 | 50 | 93 | 70 | 80 | 93 |
| | second braid | | - | - | - | - | - | - | - | - |
| | coverage | % | - | - | - | - | - | - | - | - |
| Diameter over outer conductor | | mm | 12.5 +/- 0.2 | 7.8 +/- 0.2 | 7.5 +/- 0.2 | 7.8 +/- 0.2 | 7.7 +/- 0.2 | 4.4 +/- 0.2 | 4.5 +/- 0.2 | 3.5 +/- 0.15 |
| Sheath | | | PE | PVC | PE | PVC | PVC | PVC | PE / (PVC) | PVC |
| Diameter over sheath | | mm | 15.0 +/- 0.2 | 10.3 +/- 0.2 | 9.8 +/- 0.2 | 10.3 +/- 0.2 | 10.3 +/- 0.2 | 6.15 +/- 0.2 | 5.4 +/- 0.2 | 4.95 +/- 0.2 |
| ***Mechanical performance*** | | | | | | | | | | |
| Min. setting radius (installation) | | mm | 100 | 100 | 75 | 60 | 50 | 50 | 35 | 25 |
| Max. tensile strenght | | N | 2000 | 450 | 400 | 450 | 250 | 125 | 100 | 40 |
| Total weight | | g/m | 280 | 140 | 107 | 135 | 147 | 47 | 35 / (39) | 35 |
| Min. installation temperature: | -5°C | | | | | | | | | |
| Operating/storage temperature PE: | -40°C to +80°C | | | | | | | | | |
| PVC: | -30°C to +75°C | | | | | | | | | |