

FLEXIBLE COAXIAL CABLE



P/N: HY178DT

SPECIFICATIONS MECANIQUES / MECHANICAL SPECIFICATIONS

| | |
|--------------------------------------------------------|-----------------------------|
| Type de câble / <i>Cable type</i> | Double shield RG178 - RD178 |
| Températures d'utilisation / <i>Temperature range</i> | -55 °C ~ +150 °C |
| Rayon de courbure minimum / <i>Minimum bend radius</i> | 10 mm (stat) / 20 mm (dyn) |
| Poids / <i>Weight</i> | 13 kg/km |

SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS

| | |
|---------------------------------------------------------|-------------|
| Frequence d'utilisation / <i>Frequency range</i> | DC ~ 3 GHz |
| Impédance / <i>Impedance</i> | 50 Ohms |
| Capacité / <i>Capacitance</i> | 96 pF/m |
| Vitesse de propagation / <i>Velocity of propagation</i> | 70 % |
| Efficacité de blindage / <i>Shielding effectiveness</i> | 60 dB (min) |
| Retard linéique / <i>Time delay</i> | 4.8 ns/m |
| Tension d'utilisation / <i>Voltage Withstand</i> | 1000 Vrms |

CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

| | |
|---------------------------------------------------------|--------------------------|
| Conducteur central / <i>Inner conductor</i> | Stranded SPCCS Ø 0.29 mm |
| Diélectrique / <i>Dielectric</i> | PTFE Ø 0.84 mm |
| Tresse de blindage / <i>Shield braid</i> | SPC Ø 1.27 mm |
| Seconde tresse de blindage / <i>Second shield braid</i> | SPC Ø 1.60 mm |
| Gaine et Couleur / <i>Jacket and Color</i> | Brown FEP Ø 2.10 mm |

ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING

| | | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency (GHz) | 0,1 | 0,2 | 0,4 | 0,8 | 1 | 1,2 | 1,5 | 2 | 2,2 | 2,5 | 3 |
| Typical attenuation (dB/m) | 0,478 | 0,679 | 0,965 | 1,374 | 1,540 | 1,691 | 1,897 | 2,201 | 2,313 | 2,472 | 2,718 |
| Typical attenuation (dB/m) = (1.50 x √(FGHz)) + (0.04 x FGHz) with VSWR = 1.0 and Temperature = 25 °C | | | | | | | | | | | |
| Max power handling (W/cw) | 190 | 134 | 95 | 67 | 60 | 55 | 49 | 42 | 40 | 38 | 35 |
| Max power handling (W/cw) = 60 ÷ √(FGHz) with VSWR = 1.0, Temperature = 25 °C and sea level | | | | | | | | | | | |

ATTENUATION (dB/m) / TYPICAL ATTENUATION (dB/m) vs FREQUENCY (GHz)

