

FLEXIBLE COAXIAL CABLE



P/N: HY58

SPECIFICATIONS MECANIQUES / MECHANICAL SPECIFICATIONS

| | |
|--------------------------------------------------------|----------------------------|
| Type de câble / <i>Cable type</i> | MIL-C-17/28 - RG58 - KX15 |
| Températures d'utilisation / <i>Temperature range</i> | -40 °C ~ +85 °C |
| Rayon de courbure minimum / <i>Minimum bend radius</i> | 20 mm (stat) / 40 mm (dyn) |
| Poids / <i>Weight</i> | 35 kg/km |

SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS

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|---------------------------------------------------------|----------------------|
| 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> | 66 % |
| Efficacité de blindage / <i>Shielding effectiveness</i> | 40 dB (min) |
| Retard linéique / <i>Time delay</i> | 5.0 ns/m |
| Tension d'utilisation / <i>Voltage Withstand</i> | 1500 Vac / 3000 Vrms |

CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

| | |
|---------------------------------------------------------|------------------------|
| Conducteur central / <i>Inner conductor</i> | Stranded TPC Ø 0.90 mm |
| Diélectrique / <i>Dielectric</i> | PE Ø 2.95 mm |
| Tresse de blindage / <i>Shield braid</i> | TPC Ø 3.66 mm |
| Seconde tresse de blindage / <i>Second shield braid</i> | --- |
| Gaine et Couleur / <i>Jacket and Color</i> | Black PVC Ø 4.95 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) | 0,203 | 0,290 | 0,414 | 0,595 | 0,670 | 0,738 | 0,832 | 0,971 | 1,022 | 1,096 | 1,211 |
| Typical attenuation (dB/m) = (0.63 x √(FGHz)) + (0.04 x FGHz) with VSWR = 1.0 and Temperature = 25 °C | | | | | | | | | | | |
| Max power handling (W/cw) | 174 | 123 | 87 | 61 | 55 | 50 | 45 | 39 | 37 | 35 | 32 |
| Max power handling (W/cw) = 55 ÷ √(FGHz) with VSWR = 1.0, Temperature = 25 °C and sea level | | | | | | | | | | | |

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

