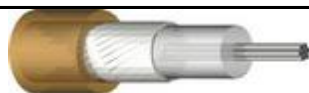


## NON MAGNETIC FLEXIBLE COAXIAL CABLE



P/N: HY316NM

## SPECIFICATIONS MECANIQUES / MECHANICAL SPECIFICATIONS

|                                                 |                              |
|-------------------------------------------------|------------------------------|
| Type de câble / Cable type                      | MIL-C-17/113 - RG316 - KX22A |
| Températures d'utilisation / Temperature range  | -55 °C ~ +150 °C             |
| Rayon de courbure minimum / Minimum bend radius | 12.5 mm (stat) / 25 mm (dyn) |
| Poids / Weight                                  | 17 kg/km                     |

## SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS

|                                                  |             |
|--------------------------------------------------|-------------|
| Frequence d'utilisation / Frequency range        | DC ~ 3 GHz  |
| Impédance / Impedance                            | 50 Ohms     |
| Capacité / Capacitance                           | 96 pF/m     |
| Vitesse de propagation / Velocity of propagation | 70 %        |
| Efficacité de blindage / Shielding effectiveness | 40 dB (min) |
| Retard linéique / Time delay                     | 4.8 ns/m    |
| Tension d'utilisation / Voltage Withstand        | 2000 Vrms   |

## CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

|                                                  |                     |
|--------------------------------------------------|---------------------|
| Conducteur central / Inner conductor             | SPC Ø 0.53 mm       |
| Diélectrique / Dielectric                        | PTFE Ø 1.52 mm      |
| Tresse de blindage / Shield braid                | SPC Ø 1.98 mm       |
| Seconde tresse de blindage / Second shield braid | ---                 |
| Gaine et Couleur / Jacket and Color              | Brown FEP Ø 2.49 mm |

## ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING

|                                                                                                                 |       |       |       |       |       |       |       |       |       |       |       |
|-----------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency (GHz)                                                                                                 | 0,01  | 0,1   | 0,4   | 0,8   | 1     | 1,2   | 1,5   | 2     | 2,2   | 2,5   | 3     |
| Typical attenuation (dB/m)                                                                                      | 0,082 | 0,263 | 0,535 | 0,765 | 0,860 | 0,946 | 1,064 | 1,240 | 1,304 | 1,397 | 1,540 |
| Typical attenuation (dB/m) = (0.82 x $\sqrt{f}$ (FGHz)) + (0.04 x FGHz) with VSWR = 1.0 and Temperature = 25 °C |       |       |       |       |       |       |       |       |       |       |       |
| Max power handling (W/cw)                                                                                       | 1300  | 411   | 206   | 145   | 130   | 119   | 106   | 92    | 88    | 82    | 75    |
| Max power handling (W/cw) = 130 ÷ $\sqrt{f}$ (FGHz) with VSWR = 1.0, Temperature = 25 °C and sea level          |       |       |       |       |       |       |       |       |       |       |       |

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

