

**AERONAUTICAL QUALIFIED  
FLAME RETARDANT COAXIAL CABLE****REF : HYLM900FRA****SPECIFICATIONS MECANQUES / MECHANICAL SPECIFICATIONS**

|                                                 |                                 |
|-------------------------------------------------|---------------------------------|
| Type de câble / Cable type                      | Low loss flexible               |
| Températures d'utilisation / Temperature range  | -40 °C ~ +80 °C                 |
| Rayon de courbure minimum / Minimum bend radius | 76.2 mm (stat) / 228.6 mm (dyn) |
| Poids / Weight                                  | 400 kg/km                       |

**SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS**

|                                                  |                      |
|--------------------------------------------------|----------------------|
| Frequence d'utilisation / Frequency range        | DC ~ 6 GHz           |
| Impédance / Impedance                            | 50 Ohms              |
| Capacité / Capacitance                           | 76.6 pF/m            |
| Vitesse de propagation / Velocity of propagation | 87 %                 |
| Efficacité de blindage / Shielding effectiveness | 90 dB (min)          |
| Retard linéique / Time delay                     | 3.83 ns/m            |
| Tension d'utilisation / Voltage Withstand        | 5000 Vdc / 8000 Vrms |

**CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS**

|                                               |                                                  |
|-----------------------------------------------|--------------------------------------------------|
| Conducteur central / Inner conductor          | BC tube Ø 1 x 6.65 mm                            |
| Diélectrique / Dielectric                     | Foam PE Ø 17.27 mm                               |
| Conducteur extérieur / Outer conductor        | Al tape Ø 17.42 mm                               |
| Tresse de blindage / Shield braid             | TPC Ø 18.59 mm                                   |
| Gaine et Couleur / Jacket and Color           | Black FRPE Ø 22.10 mm                            |
| Normes spécifiques / Specific characteristics | FAA/FAR FAR part 25.869 appendix F part I (a)(3) |

**ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING**

|                                                                                                                        |       |       |       |       |       |       |       |       |       |       |       |
|------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency (MHz)                                                                                                        | 30    | 50    | 150   | 220   | 450   | 900   | 1500  | 1800  | 2000  | 2500  | 5800  |
| Typical attenuation (dB/m)                                                                                             | 0,009 | 0,012 | 0,022 | 0,026 | 0,038 | 0,056 | 0,074 | 0,082 | 0,086 | 0,098 | 0,160 |
| Typical attenuation (dB/m) = ((0.05177 x v(FMHz)) + (0.00016 x FMHz))/30.48 with VSWR = 1.0 and Temperature = 25 °C    |       |       |       |       |       |       |       |       |       |       |       |
| Max power handling (W/cw)                                                                                              | 8890  | 6850  | 3890  | 3190  | 2190  | 1510  | 1140  | 1030  | 970   | 860   | 520   |
| Max power handling with VSWR = 1.0, Temperature = 40 °C, sea level, dry air, atmospheric pressure and no solar loading |       |       |       |       |       |       |       |       |       |       |       |

**ATTENUATION (dB/m) / TYPICAL ATTENUATION (dB/m) vs FREQUENCY (MHz)**