

AERONAUTICAL QUALIFIED FLAME RETARDANT COAXIAL CABLE



REF : HYLM900FRT

SPECIFICATIONS MECANIKES / 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)

