

**AERONAUTICAL QUALIFIED
FLAME RETARDANT COAXIAL CABLE****REF : HYLM500FRA****SPECIFICATIONS MECANQUES / MECHANICAL SPECIFICATIONS**

Type de câble / Cable type	Flame retardant low loss flexible
Températures d'utilisation / Temperature range	-40 °C ~ +80 °C
Rayon de courbure minimum / Minimum bend radius	31.8 mm (stat) / 127.0 mm (dyn)
Poids / Weight	140 kg/km

SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS

Frequence d'utilisation / Frequency range	DC ~ 6 GHz
Impédance / Impedance	50 Ohms
Capacité / Capacitance	77.5 pF/m
Vitesse de propagation / Velocity of propagation	86 %
Efficacité de blindage / Shielding effectiveness	90 dB (min)
Retard linéique / Time delay	3.88 ns/m
Tension d'utilisation / Voltage Withstand	3000 Vdc / 8000 Vrms

CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

Conducteur central / Inner conductor	Solid BCCAI Ø 1 x 3.61 mm	
Diélectrique / Dielectric	Foam PE Ø 9.40 mm	
Conducteur extérieur / Outer conductor	Al tape Ø 9.55 mm	
Tresse de blindage / Shield braid	TPC Ø 10.29 mm	
Gaine et Couleur / Jacket and Color	Black LSZH PE Ø 12.70 mm	
Normes spécifiques / Specific characteristics	CPR class	B2ca-s1a, d0, a1
	FAA/FAR	14 CFR Part 25.869

ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING

Frequency (MHz)	30	50	150	220	450	900	1500	1800	2000	2500	5800
Typical attenuation (dB/m)	0,018	0,023	0,040	0,049	0,071	0,103	0,136	0,150	0,159	0,180	0,291
Typical attenuation (dB/m) = ((0.09659 x √(FMHz)) + (0.00026 x FMHz))/30.48 with VSWR = 1.0 and Temperature = 25 °C											
Max power handling (W/cw)	4400	3393	1931	1583	1088	752	569	515	485	428	264
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)