

**AERONAUTICAL QUALIFIED
FLAME RETARDANT COAXIAL CABLE****REF : HYLM600FRA****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	38.1 mm (stat) / 152.4 mm (dyn)
Poids / Weight	200 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	4000 Vdc / 8000 Vrms

CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

Conducteur central / Inner conductor	Solid BCCAl Ø 1 x 4.47 mm	
Diélectrique / Dielectric	Foam PE Ø 11.56 mm	
Conducteur extérieur / Outer conductor	Al tape Ø 11.71 mm	
Tresse de blindage / Shield braid	TPC Ø 12.45 mm	
Gaine et Couleur / Jacket and Color	Black LSZH PE Ø 14.99 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)	0,014	0,018	0,032	0,039	0,056	0,082	0,109	0,121	0,128	0,145	0,238
Typical attenuation (dB/m) = ((0.07555 x v(FMHz)) + (0.00026 x FMHz))/30.48 with VSWR = 1.0 and Temperature = 25 °C											
Max power handling (W/cw)	5510	4240	2410	1970	1350	930	700	630	590	520	320
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)