

HIGH POWER FLEXIBLE COAXIAL CABLE



REF : HY590L

SPECIFICATIONS MECANIQUES / MECHANICAL SPECIFICATIONS

Type de câble / Cable type	
Températures d'utilisation / Temperature range	-55 °C ~ +200 °C
Rayon de courbure minimum / Minimum bend radius	75 mm (stat) / 150 mm (dyn)
Poids / Weight	432 kg/km

SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS

Frequence d'utilisation / Frequency range	DC ~ 8 GHz
Impédance / Impedance	50 Ohms
Capacité / Capacitance	88 pF/m
Vitesse de propagation / Velocity of propagation	76 %
Efficacité de blindage / Shielding effectiveness	100 dB (min)
Retard linéique / Time delay	4.39 ns/m
Tension d'utilisation / Voltage Withstand	5000 V

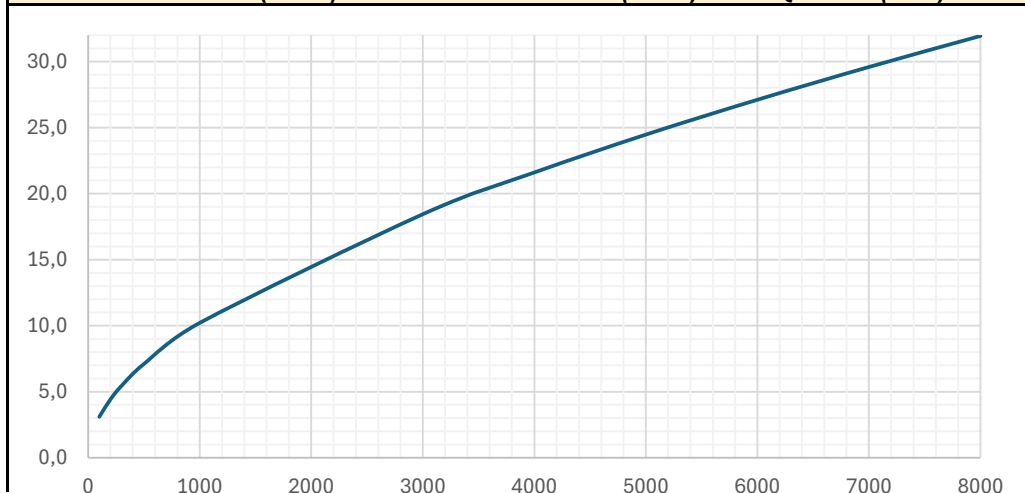
CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

Conducteur central / Inner conductor	SPC wire (19x0,88) Ø 4,40 mm
Diélectrique / Dielectric	Low Density PTFE Ø 12,90 mm
Tresse de blindage / Inner shield braid	FSPC strip Ø 13,22 mm
Feuillard inter-blindage / Interlayer	Aluminium foil Ø 13,55 mm
Seconde tresse de blindage / Outer shield braid	RSPC wire Ø 13,85 mm
Gaine / Jacket	FEP Ø 15 mm

ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING

Frequency (MHz)	100	200	300	500	1000	3000	4000	5000	6000	7000	8000
Typical attenuation (dB/100m)	3,100	4,420	5,450	7,100	10,210	18,440	21,600	24,470	27,110	29,590	31,940
Typical attenuation (dB/m) = (0.304208 x $\sqrt{f}$ (FMHz)) + (0.000591 x FMHz) with VSWR = 1.0 and Temperature = 25 °C											
Max power handling (W/cw)	13440	9429	7653	5872	4082	2261	1929	1704	1537	1409	1305

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



0	1000	2000	3000	4000	5000	6000	7000	8000
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