

LOW LOSS FLEXIBLE MICROWAVE COAXIAL CABLE



REF : HY160

SPECIFICATIONS MECANIKES / MECHANICAL SPECIFICATIONS

Type de câble / Cable type	
Températures d'utilisation / Temperature range	-55 °C ~ +165 °C
Rayon de courbure minimum / Minimum bend radius	8 mm (stat) / 15 mm (dyn)
Poids / Weight	6 kg/km

SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS

Frequence d'utilisation / Frequency range	DC ~ 110 GHz
Impédance / Impedance	50 Ohms
Capacité / Capacitance	84 pF/m
Vitesse de propagation / Velocity of propagation	80 %
Efficacité de blindage / Shielding effectiveness	90 dB (min)
Retard linéique / Time delay	4.02 ns/m
Tension d'utilisation / Voltage Withstand	300 V

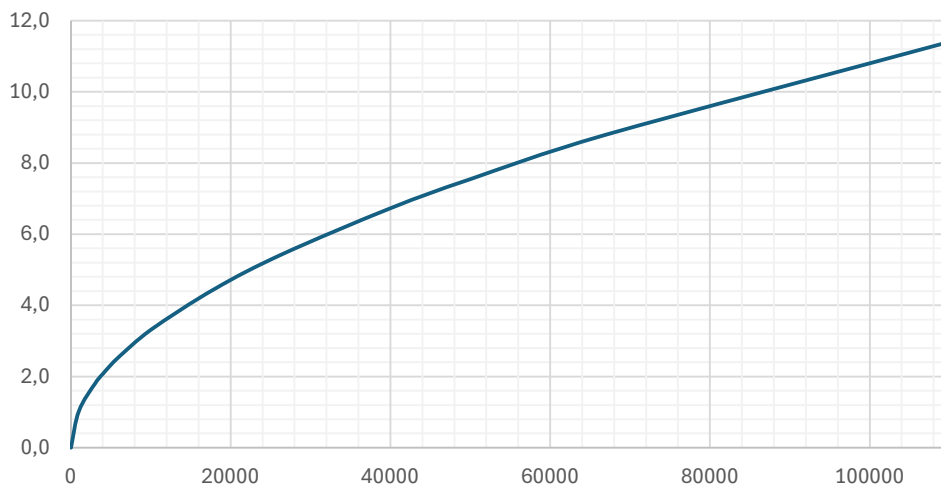
CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

Conducteur central / Inner conductor	Solid SPC wire Ø 0,30 mm
Diélectrique / Dielectric	Low Density PTFE Ø 0,85 mm
Tresse de blindage / Inner shield braid	N/A
Feuillard inter-blindage / Interlayer	SPC strip Ø 1,00 mm
Seconde tresse de blindage / Outer shield braid	SPC wire Ø 1,20 mm
Gaine / Jacket	FEP Ø 1,50 mm

ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING

Frequency (MHz)	1000	3000	4000	6000	10000	18000	26500	40000	50000	67000	110000
Typical attenuation (dB/m)	1,033	1,796	2,077	2,550	3,305	4,461	5,439	6,726	7,550	8,792	11,405
Typical attenuation (dB/m) = $(3,2476 \times \sqrt{\text{FMHz}}) + (0,000576 \times \text{FMHz}) \div 100$ with VSWR = 1.0 and Temperature = 25 °C											
Max power handling (W/cw)	74	43	37	30	23	17	14	11	10	9	7

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



Specific parameters

Phase Change VS Bending (°/GHz)	±0.3
Phase Change VS Temperature@ (-45~+85) °C	≤750 PPM @ -45 / +85°C