

LOW LOSS FLEXIBLE MICROWAVE COAXIAL CABLE



REF : HY310

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	15 mm (stat) / 31 mm (dyn)
Poids / Weight	27 kg/km

SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS

Frequence d'utilisation / Frequency range	DC ~ 50 GHz
Impédance / Impedance	50 Ohms
Capacité / Capacitance	80 pF/m
Vitesse de propagation / Velocity of propagation	82 %
Efficacité de blindage / Shielding effectiveness	90 dB (min)
Retard linéique / Time delay	4.02 ns/m
Tension d'utilisation / Voltage Withstand	1000 V

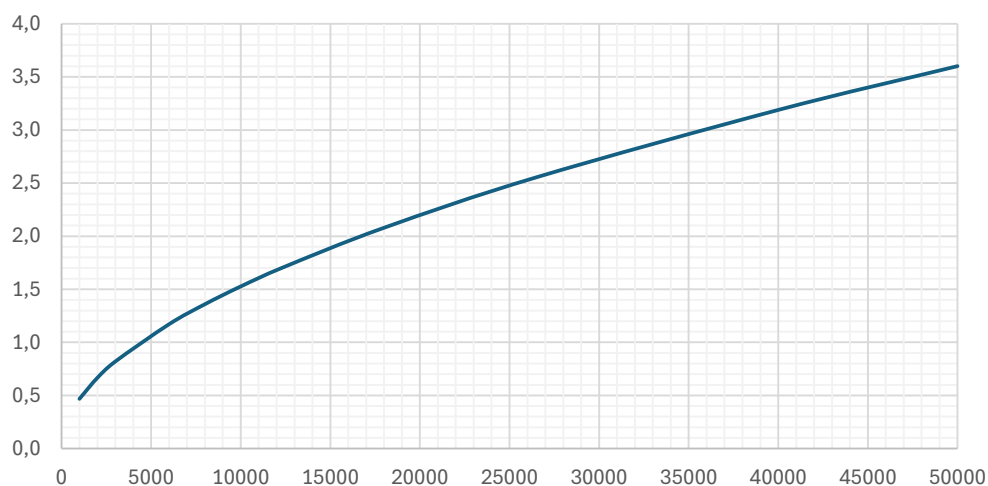
CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

Conducteur central / Inner conductor	Solid SPC wire Ø 0,72 mm
Diélectrique / Dielectric	Low Density PTFE Ø 2,00 mm
Tresse de blindage / Inner shield braid	N/A
Feuillard inter-blindage / Interlayer	SPC strip Ø 2,20 mm
Seconde tresse de blindage / Outer shield braid	SPC wire Ø 2,52 mm
Gaine / Jacket	FEP Ø 3,10 mm

ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000	50000
Typical attenuation (dB/m)	0,468	0,666	0,819	1,171	1,359	1,526	1,708	2,079	2,554	3,189	3,601
Typical attenuation (dB/m) = (1,975832 x $\sqrt{\text{FMHz}}$) + (0,001221 x FMHz) ÷ 100 with VSWR = 1.0 and Temperature = 25 °C											
Max power handling (W/cw)	407	286	233	163	140	125	111	92	75	60	53

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