

LOW LOSS FLEXIBLE MICROWAVE COAXIAL CABLE



REF : HY1000

SPECIFICATIONS MECANQUES / MECHANICAL SPECIFICATIONS

Type de câble / Cable type	
Températures d'utilisation / Temperature range	-55 °C ~ +165 °C
Rayon de courbure minimum / Minimum bend radius	50 mm (stat) / 100 mm (dyn)
Poids / Weight	206 kg/km

SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS

Frequence d'utilisation / Frequency range	DC ~ 14 GHz
Impédance / Impedance	50 Ohms
Capacité / Capacitance	80 pF/m
Vitesse de propagation / Velocity of propagation	84 %
Efficacité de blindage / Shielding effectiveness	90 dB (min)
Retard linéique / Time delay	4.02 ns/m
Tension d'utilisation / Voltage Withstand	4000 V

CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

Conducteur central / Inner conductor	Solid SPC wire Ø 3.05 mm
Diélectrique / Dielectric	Low Density PTFE Ø 8.24 mm
Tresse de blindage / Inner shield braid	N/A
Feuillard inter-blindage / Interlayer	SPC strip Ø 8.48 mm
Seconde tresse de blindage / Outer shield braid	SPC wire Ø 9.20 mm
Gaine / Jacket	FEP Ø 10.00 mm

ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING

Frequency (MHz)	300	500	1000	2000	3000	4000	6000	8000	10000	12400	14000
Typical attenuation (dB/m)	0,056	0,073	0,104	0,150	0,187	0,218	0,272	0,319	0,361	0,408	0,437
Typical attenuation (dB/m) = $(0,316177 \times \sqrt{f(\text{MHz})}) + (0,000448 \times f(\text{MHz})) \div 100$ with VSWR = 1.0 and Temperature = 25 °C											
Max power handling (W/cw)	6539	5030	3512	2440	1966	1684	1350	1151	1016	900	840

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

