

LOW LOSS PHASE STABLE FLEXIBLE COAXIAL CABLE



REF : HY40A

SPECIFICATIONS MECANIQUES / MECHANICAL SPECIFICATIONS

Températures d'utilisation / Temperature range	-55 °C ~ +200 °C
Rayon de courbure minimum / Minimum bend radius	20 mm (stat) / 40 mm (dyn)
Poids / Weight	35 kg/km

SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS

Frequence d'utilisation / Frequency range	DC ~ 40 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	500 Vdc

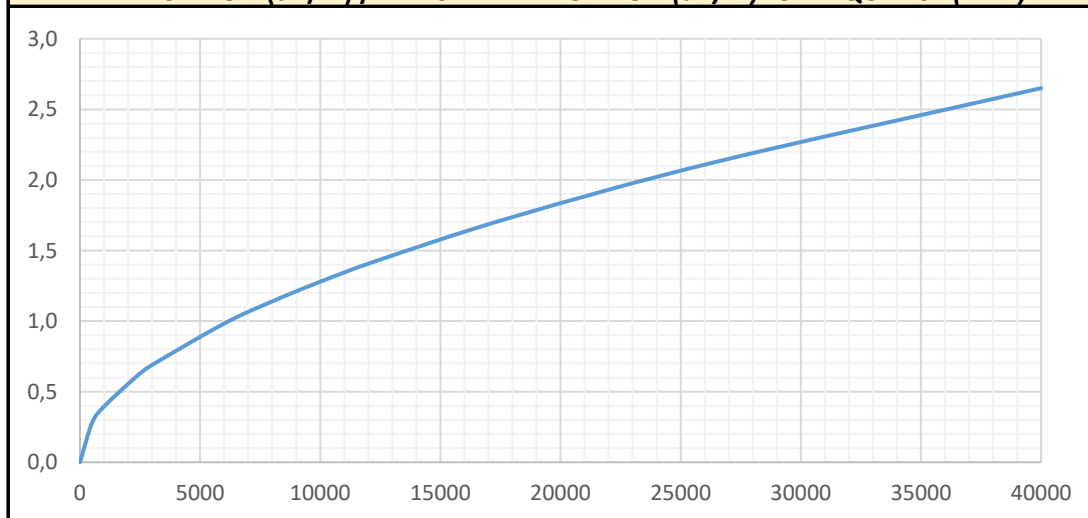
CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

Conducteur central / Inner conductor	Solid SPC wire Ø 0,91 mm
Diélectrique / Dielectric	Low Density PTFE Tape Ø 2,70 mm
Tresse de blindage / Inner shield braid	SPC Strip Ø 2,90 mm
Feuillard inter-blindage / Interlayer	Low Density PTFE Tape Ø 3,08 mm
Seconde tresse de blindage / Outer shield braid	SPC Wire Ø 3,50 mm
Gaine et Couleur / Jacket and Color	Orange FEP Ø 4,10 mm

ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING

Frequency (MHz)	500	1000	2400	3000	6000	8000	10000	12400	18000	26500	40000
Typical attenuation (dB/m)	0,278	0,394	0,615	0,689	0,982	1,139	1,279	1,430	1,737	2,129	2,650
Typical attenuation (dB/m) = (1,232579 x √(FMHz)) + (0,000462 x FMHz) ÷ 100 with VSWR = 1.0 and Temperature = 25 °C											
Max power handling (W/cw)	795	560	359	321	225	194	173	155	127	104	83

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



Specific parameters

Phase Change VS Bending ($^{\circ}$ /GHz)	± 0.2
Phase Change VS Temperature@ (-45~+85) $^{\circ}$ C	≤ 1500 PPM