

LOW LOSS PHASE STABLE FLEXIBLE COAXIAL CABLE



REF : HY50A

SPECIFICATIONS MECANIQUES / MECHANICAL SPECIFICATIONS

Températures d'utilisation / Temperature range	-55 °C ~ +200 °C
Rayon de courbure minimum / Minimum bend radius	18 mm (stat) / 36 mm (dyn)
Poids / Weight	33 kg/km

SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS

Fréquence d'utilisation / Frequency range	DC ~ 50 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

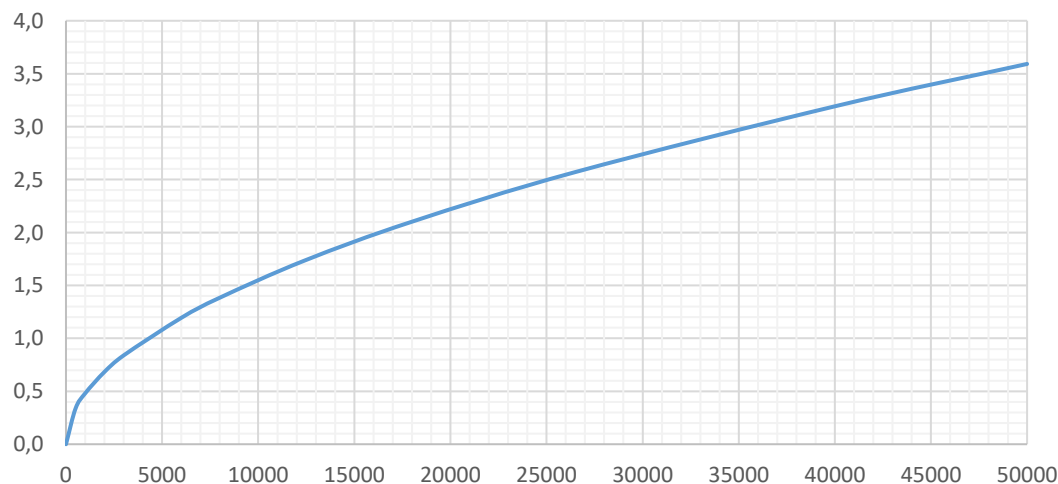
CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

Conducteur central / Inner conductor	Solid SPC wire Ø 0,72 mm
Diélectrique / Dielectric	Low Density PTFE Tape Ø 2,21 mm
Tresse de blindage / Inner shield braid	SPC Braid Ø 2,38 mm
Feuillard inter-blindage / Interlayer	Low Density PTFE Tape Ø 2,68 mm
Seconde tresse de blindage / Outer shield braid	SPC Braid Ø 3,14 mm
Gaine et Couleur / Jacket and Color	Orange FEP Ø 3,60 mm

ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING

Frequency (MHz)	500	1000	2000	3000	6000	8000	12400	18000	26500	40000	50000
Typical attenuation (dB/m)	0,339	0,481	0,683	0,839	1,194	1,384	1,734	2,102	2,571	3,192	3,592
Typical attenuation (dB/m) = (1,507808 x √(FMHz)) + (0,000440 x FMHz) ÷ 100 with VSWR = 1.0 and Temperature = 25 °C											
Max power handling (W/cw)	717	506	356	290	204	176	140	116	95	76	68

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



Specific parameters

Phase Change VS Bending (°/GHz)	±0.2
Phase Change VS Temperature@ (-45~+85) °C	≤1500 PPM