

PHASE STABLE OVER TEMPERATURE FLEXIBLE MICROWAVE COAXIAL CABLE



REF : HY047PS

SPECIFICATIONS MECANIKES / MECHANICAL SPECIFICATIONS

Type de câble / Cable type	
Températures d'utilisation / Temperature range	-65 °C ~ +165 °C
Rayon de courbure minimum / Minimum bend radius	6,35 mm (stat)
Poids / Weight	5,6 kg/km

SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS

Frequence d'utilisation / Frequency range	DC ~ 50 GHz
Impédance / Impedance	50 Ohms
Capacité / Capacitance	84,7 pF/m
Vitesse de propagation / Velocity of propagation	78,7 %
Efficacité de blindage / Shielding effectiveness	N/A
Retard linéique / Time delay	4.23 ns/m
Tension d'utilisation / Voltage Withstand	N/A

CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

Conducteur central / Inner conductor	Solid SPC wire Ø 0,32 mm
Diélectrique / Dielectric	Foamed FP Ø 0,914 mm
Tresse de blindage / Inner shield braid	N/A
Feuillard inter-blindage / Interlayer	Flat SPC
Seconde tresse de blindage / Outer shield braid	SPC wire Ø 1,17 mm
Gaine / Jacket	FEP Ø 1,422 mm

ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING

Frequency (MHz)	1000	2000	4000	8000	12000	18000	26500	34000	40000	50000	
Typical attenuation (dB/m)	1,098	1,566	2,240	3,220	3,991	4,961	6,122	7,021	7,684	8,707	
Typical attenuation (dB/m) = $(3,4033 \times \sqrt{\text{FMHz}}) + (0,002194 \times \text{FMHz}) \div 100$ with VSWR = 1.0 and Temperature = 25 °C											
Max power handling (W/cw)	49	35	24	17	14	11	9	8	7	6	

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

