

HAND-FORMABLE PHASE STABLE COAXIAL CABLE ALTERNATIVE TO SEMI-RIGID



REF : HY402FORMPS

SPECIFICATIONS MECANIQUES / MECHANICAL SPECIFICATIONS

Type de câble / Cable type	Semi-flexible alternative to .141" semi-rigid
Températures d'utilisation / Temperature range	-65 °C ~ +200 °C
Rayon de courbure minimum / Minimum bend radius	8 mm (static) / 40mm (dynamic)
Poids / Weight	33 kg/km

SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS

Frequence d'utilisation / Frequency range	DC ~ 30 GHz
Impédance / Impedance	50 Ohms
Capacité / Capacitance	80 pF/m
Vitesse de propagation / Velocity of propagation	83 %
Efficacité de blindage / Shielding effectiveness	100 dB (to 18 GHz)
Retard linéique / Time delay	4 ns/m
Tension d'utilisation / Voltage Withstand	500 Vrms

CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

Conducteur central / Inner conductor	SPCCAL wire Ø 1,15 mm
Diélectrique / Dielectric	LD Fluorine polymer Ø 2.95 mm
Conducteur extérieur / Outer conductor	TPC braid Ø 3.58 mm
Gaine et Couleur / Jacket and Color	Unjacketed

ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING

Frequency (GHz)	0,2	1	2	4	6	8	10	15	20	25	30
Typical attenuation (dB/m)	0,148	0,349	0,512	0,762	0,968	1,153	1,322	1,708	2,058	2,385	2,696
Typical attenuation (dB/m) = ((0,317 x v(FGHz)) + (0,032 x FGHz)) with VSWR = 1.0 and Temperature = 25 °C											
Max power handling (W/cw)	805	360	255	180	147	127	114	93	80	72	66
Max power handling (W/cw) = 360 ÷ v(FGHz) with VSWR = 1.0, Temperature = 25 °C and sea level											

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

