

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



REF : HY405FORMPS

SPECIFICATIONS MECANIQUES / MECHANICAL SPECIFICATIONS

Type de câble / Cable type	Semi-flexible alternative to .086" semi-rigid
Températures d'utilisation / Temperature range	-65 °C ~ +200 °C
Rayon de courbure minimum / Minimum bend radius	6 mm (static) / 20mm (dynamic)
Poids / Weight	16 kg/km

SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS

Frequence d'utilisation / Frequency range	DC ~ 40 GHz
Impédance / Impedance	50 Ohms
Capacité / Capacitance	83,5 pF/m
Vitesse de propagation / Velocity of propagation	80 %
Efficacité de blindage / Shielding effectiveness	100 dB (to 18 GHz)
Retard linéique / Time delay	4,2 ns/m
Tension d'utilisation / Voltage Withstand	750 Vrms

CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

Conducteur central / Inner conductor	SPC wire Ø 0,62 mm
Diélectrique / Dielectric	LD Fluorine polymer Ø 1,74 mm
Tresse de blindage / Inner shield braid	TPC braid Ø 2,15 mm
Feuillard inter-blindage / Interlayer	N/A
Seconde tresse de blindage / Outer shield braid	N/A
Gaine / Jacket	Unjacketed

ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING

Frequency (GHz)	0,2	1	2	4	6	8	10	15	20	30	40
Typical attenuation (dB/m)	0,254	0,595	0,870	1,286	1,628	1,930	2,209	2,836	3,403	4,430	5,371
Typical attenuation (dB/m) = ((0,5476 x √(FGHz)) + (0,0477 x FGHz)) with VSWR = 1.0 and Temperature = 25 °C											
Max power handling (W/cw)	369	165	117	82	67	58	52	43	37	30	26
Max power handling (W/cw) = 360 ÷ √(FGHz) with VSWR = 1.0, Temperature = 25 °C and sea level											

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

