

MICROWAVE LOW LOSS HIGH PERFORMANCE COAXIAL CABLE



REF : HY205

SPECIFICATIONS MECANQUES / MECHANICAL SPECIFICATIONS

Type de câble / Cable type	
Températures d'utilisation / Temperature range	-55 °C ~ +200 °C
Rayon de courbure minimum / Minimum bend radius	25.4 mm (stat) / 50.8 mm (dyn)
Poids / Weight	60 kg/km

SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS

Frequence d'utilisation / Frequency range	DC ~ 26.5 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	1500 Vdc

CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

Conducteur central / Inner conductor	Solid SPC wire Ø 1.29 mm
Diélectrique / Dielectric	Low Density PTFE Tape Ø 3.91 mm
Tresse de blindage / Inner shield braid	SPC Braid Ø 4.17 mm
Feuillard inter-blindage / Interlayer	Aluminium Tape Ø 4.29 mm
Seconde tresse de blindage / Outer shield braid	SPC Braid Ø 4.75 mm
Gaine / Jacket	FEP Ø 5.21 mm

ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING

Frequency (MHz)	100	400	1000	2000	3000	8000	12000	13500	16000	18000	26500
Typical attenuation (dB/m)	0,086	0,174	0,277	0,395	0,487	0,813	1,009	1,075	1,178	1,255	1,550
Typical attenuation (dB/m) = (0.26098 x $\sqrt{\text{FMHz}}$) + (0.00018 x FMHz) ÷ 30.48 with VSWR = 1.0 and Temperature = 25 °C											
Max power handling (W/cw)	2430	1201	750	523	422	248	198	186	168	157	110

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

