

LOW LOSS FLEXIBLE MICROWAVE COAXIAL CABLE



REF : HY220

SPECIFICATIONS MECANIQUES / MECHANICAL SPECIFICATIONS

Type de câble / Cable type	
Températures d'utilisation / Temperature range	-55 °C ~ +165 °C
Rayon de courbure minimum / Minimum bend radius	8,8 mm (stat) / 22 mm (dyn)
Poids / Weight	16 kg/km

SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS

Frequence d'utilisation / Frequency range	DC ~ 67 GHz
Impédance / Impedance	50 Ohms
Capacité / Capacitance	80 pF/m
Vitesse de propagation / Velocity of propagation	81 %
Efficacité de blindage / Shielding effectiveness	90 dB (min)
Retard linéique / Time delay	4.02 ns/m
Tension d'utilisation / Voltage Withstand	500 V

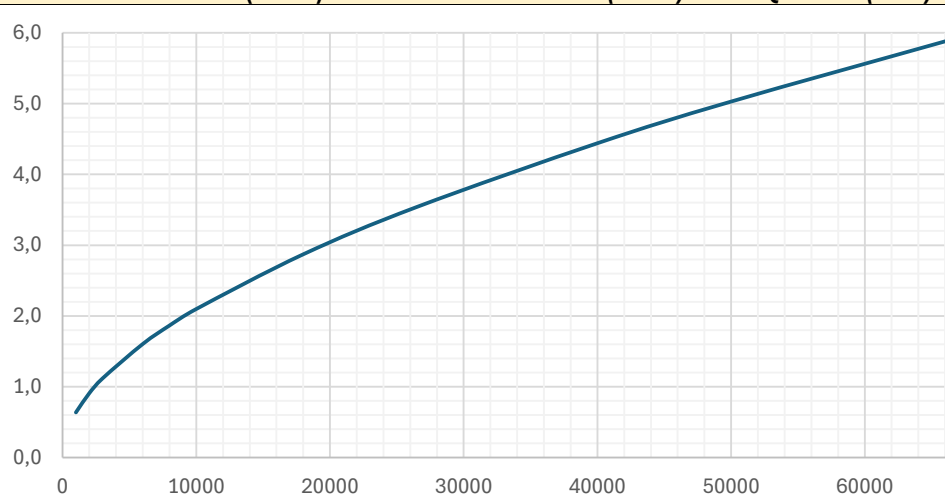
CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

Conducteur central / Inner conductor	Solid SPC wire Ø 0,51 mm
Diélectrique / Dielectric	Low Density PTFE Ø 1,38 mm
Tresse de blindage / Inner shield braid	N/A
Feuillard inter-blindage / Interlayer	SPC strip Ø 1,58 mm
Seconde tresse de blindage / Outer shield braid	SPC wire Ø 1,90 mm
Gaine / Jacket	FEP Ø 2,20 mm

ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING

Frequency (MHz)	1000	2000	3000	6000	8000	10000	18000	26500	40000	50000	67000
Typical attenuation (dB/m)	0,637	0,908	1,119	1,604	1,865	2,098	2,871	3,540	4,440	5,029	5,932
Typical attenuation (dB/m) = $(1,975832 \times \sqrt{f(\text{FMHz})}) + (0,001221 \times f(\text{FMHz})) \div 100$ with VSWR = 1.0 and Temperature = 25 °C											
Max power handling (W/cw)	97	68	55	39	33	29	22	17	14	12	10

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



Specific parameters

Phase Change VS Bending (°/GHz)	±0.3
Phase Change VS Temperature@ (-45~+85) °C	≤750 PPM @ -45 / +85°C