CABLES

STANDARD COPPER SEMI-RIGID COAXIAL CABLE

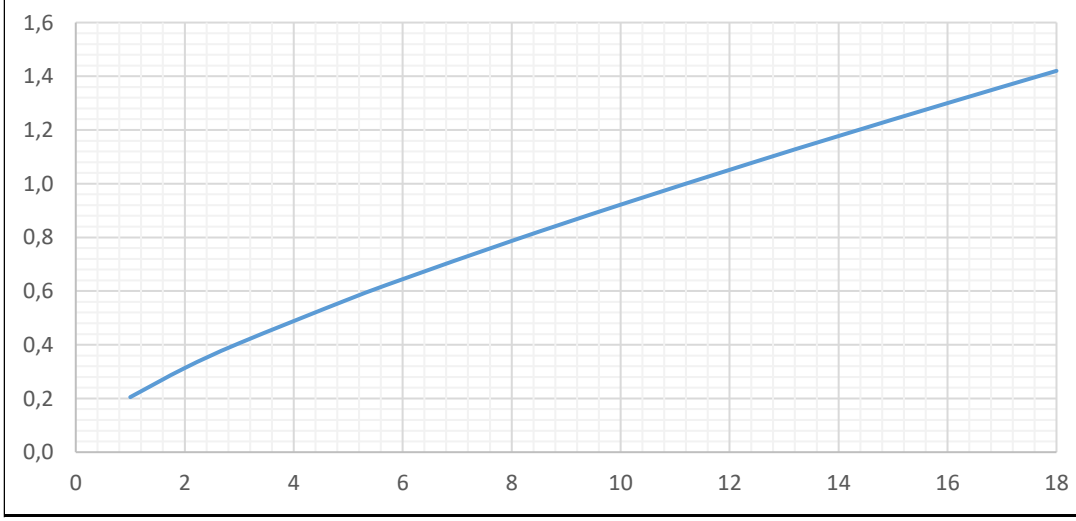
REF : HY250CU

SPECIFICATIONS MECANIQUES / *MECHANICAL SPECIFICATIONS*	
Type de câble / *Cable type*	standard copper .250" semi-rigid
Températures d'utilisation / *Temperature range*	-40 °C ~ +90 °C
Rayon de courbure minimum / *Minimum bend radius*	22.23 mm
Poids / *Weight*	140 kg/km

SPECIFICATIONS ELECTRIQUES / *ELECTRICAL SPECIFICATIONS*	
Frequence d'utilisation / *Frequency range*	DC ~ 18 GHz
Impédance / *Impedance*	50 Ohms
Capacité / *Capacitance*	95,1 pF/m
Vitesse de propagation / *Velocity of propagation*	70 %
Efficacité de blindage / *Shielding effectiveness*	110 dB (min)
Retard linéique / *Time delay*	4,80 ns/m
Tension d'utilisation / *Voltage Withstand*	7500 Vrms

CONSTRUCTION ET MATERIAUX / *CONSTRUCTION AND MATERIAL SPECIFICATIONS*	
Conducteur central / *Inner conductor*	SPCCS wire Ø 1,65 mm
Diélectrique / *Dielectric*	PTFE Ø 5,31 mm
Conducteur extérieur / *Outer conductor*	Copper tube Ø 6,35 mm
Gaine / *Jacket*	Unjacketed

ATTENUATION ET PUISSANCE / *ATTENUATION AND POWER HANDLING*

Frequency (GHz)	1	2	3	5	6	8	10	12,4	14	16	18
Typical attenuation (dB/m)	0,205	0,313	0,406	0,569	0,644	0,787	0,922	1,077	1,177	1,300	1,420
Typical attenuation (dB/m) = (0.165 x √(FGHz)) + (0.04 x FGHz) with VSWR = 1.0 and Temperature = 25 °C											
Max power handling (W/cw)	900	636	520	402	367	318	285	256	241	225	212
Max power handling (W/cw) = 900 ÷ √(FGHz) with VSWR = 1.0, Temperature = 25 °C and sea level											

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