

CABLES

STANDARD COPPER SEMI-RIGID COAXIAL CABLE



P/N: HY141CU

SPECIFICATIONS MECANIKES / MECHANICAL SPECIFICATIONS

Type de câble / Cable type	standard copper .141" semi-rigid
Températures d'utilisation / Temperature range	-40 °C ~ +125 °C
Rayon de courbure minimum / Minimum bend radius	15 mm
Poids / Weight	46 kg/km

SPECIFICATIONS ELECTRIQUES / ELECTRICAL SPECIFICATIONS

Frequence d'utilisation / Frequency range	DC ~ 34 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	5000 Vrms

CONSTRUCTION ET MATERIAUX / CONSTRUCTION AND MATERIAL SPECIFICATIONS

Conducteur central / Inner conductor	SPCCS wire Ø 0.94 mm
Diélectrique / Dielectric	PTFE Ø 2.98 mm
Conducteur extérieur / Outer conductor	Copper tube Ø 3.58 mm
Gaine et Couleur / Jacket and Color	Unjacketed

ATTENUATION ET PUISSANCE / ATTENUATION AND POWER HANDLING

Frequency (GHz)	1	2	3	6	8	10	12,4	18	26,5	30	34
Typical attenuation (dB/m)	0,408	0,600	0,757	1,141	1,361	1,564	1,792	2,281	2,954	3,216	3,506
Typical attenuation (dB/m) = (0.368 x √(FGHz)) + (0.04 x FGHz) with VSWR = 1.0 and Temperature = 25 °C											
Max power handling (W/cw)	335	237	193	137	118	106	95	79	65	61	57
Max power handling (W/cw) = 335 ÷ √(FGHz) with VSWR = 1.0, Temperature = 25 °C and sea level											

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

