

HAND FORMABLE CABLE 0.141

(FLEXIFORM 402 unjacketed / jacketed)



FLEXIFORM 402 unjacketed / jacketed

Application:

This hand formable cable is a good alternative to RG402 for applications requiring an easy routing on equipment. Due to the outer conductor construction, this cable can be hand formed with exceptional ease with no spring back effect.

Cable can be reshaped, eliminating the need for costly drawings. Attenuation is a little bit higher than the RG405's one but temperature range is wider.

CONSTRUCTION / DIMENSIONS			
	material	mm	inches
Canter conductor	stranded	0.92	0.036
	SPCCS(1)		
Dielectric	solid PTFE (2)	2.95	0.116
Inner shield	-	-	-
Outer shield	TS(3) braid	3.50	0.138
Jacket black	-(4)	4.25	0.167

(1) SPCCS= Silver Plated Copper Covered Steel

(2) PTFE = Polytetrafluoroethylene

(3)TC = Tine plated copper

(4) Optional: jacketed LSZH

MECHANICAL CHARACTERISTICS		
recommended minimum bending radius	19 mm inch	0.75
weight	33 g / m	0.0221 lbs / ft

ENVIRONMENTAL CHARACTERISTICS		
operating temperature range	-65 / +150 °C	-85 / +302 °F
fire resistance	Not applicable	
halogen free	no	

ELECTRICAL CHARACTERISTICS	
characteristic impedance	50Ω ± 2Ω
operating frequency range	DC - 18 GHz
shielding effectiveness	90 dB
voltage withstanding	5 000 V rms
peak power	3.4 kW
capacitance	96 pF / m 29 pF / ft
velocity of propagation	70 % (4.8 ns / m)

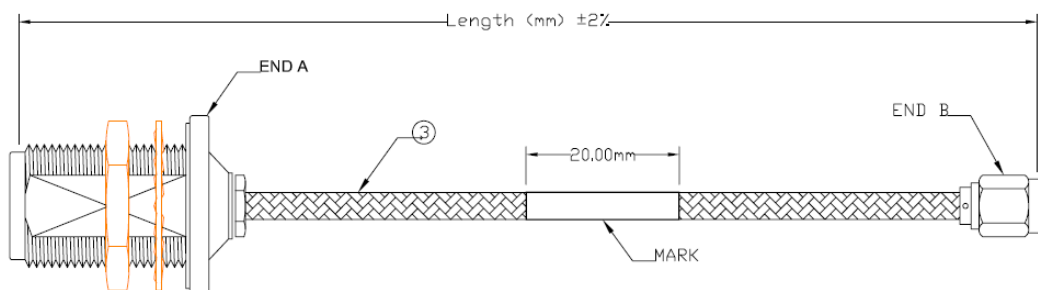
Note: typical VSWR for the cable assembly

VSWR=1.25:1

FREQUENCY / ATTENUATION / 20 °C)			
MAX POWER (sea level / 40 °C)			
GHz	dB/ m	dB / ft	Watts
1.0	0.39	0.12	315
2.0	0.57	0.17	223
3.0	0.72	0.22	182
6.0	1.09	0.33	129
8.0	1.30	0.39	111
10	1.49	0.45	100
12.4	1.71	0.52	89
18	2.18	0.66	74
attenuation calculation (dB/m)	(0.345 x √f GHz) + (0.04 x f GHz)		
power calculation (W)	315 / √f GHz		

Note: typical attenuation for a couple of connectors

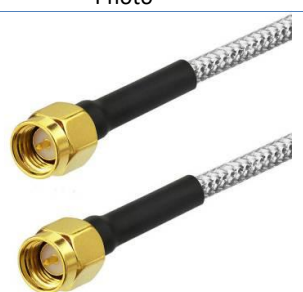

(dB) = 0.075 x √f (GHz)



- TYPE COAX CABLE
- CONNECTOR ON END A
- CONNECTOR ON END B
- LENGTH: Standard = overall length (or please specify if length between references planes)
 - length tolerance (standard = ±2%)

HAND FORMABLE CABLE 0.141 ASSEMBLIES

(FLEXIFORM 402 UNJACKETED / Jacketed)

FLEXIBLE CABLE FLEXIFORM 402 ASSEMBLES				
SKU	Model	End A - Connector	End B - Connector	Photo
00-0206	SMA male to SMA male RG402-X.XX(M)	SMA male straight	SMA male straight	
00-0206HFJ	SMA male to SMA male RG402-X.XX(M)-HFJ	SMA male straight	SMA male straight	
CUSTOM	End A to End B RG402- XX.XX(M)	End A - Connector	End B - Connector	

HAND FORMABLE CABLE 0.141 ASSEMBLIES

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CONNECTOR SELECTION (FOR RG402 CABLE)					
SKU	Connector Type Series	Interface	Frequency (GHz)	Impedance (Ω)	Classic level (Mil Spec)
01-0401	SMA	Male Straight	6	50	Commercial
01-0420	SMA	Male Right Angle	6	50	Commercial
01-0425	SMA	Female Straight, 2- hole panel mounted	6	50	Commercial
01-0419	SMA	Female Straight	6	50	Commercial
01-0446	SMA	Male Straight, SS	18	50	Commercial
01-0328	N	Male Straight	6	50	Commercial
01-0327	N	Female Straight, BH	6	50	Commercial
01-0332	N	Female, 4-hole flange	6	50	Commercial
01-344	N	Male straight	18	50	Commercial