



SkyBlue EM-C400 Series, General Purpose Cable Assembly

Features

- VSWR 1.35:1 Max up to 18GHz
- 70% Phase Velocity
- Double Shielded
- Shielding Effectivity 90dB
- Blue FEP Outer Jacket
- C400 Series Low Loss
- Connector options



ELECTRICAL SPECIFICATION (25° C, sea level)

Description	Min	Typ	Max	Units/Note
Impedance		50Ω		Ohm
Frequency	DC		18	GHz
VSWR			1.35:1	@18GHz
Velocity of Propagation		70		%
Dielectric Withstand		1500		Volts
RF Shielding		90		dB
Capacitance		94		pF/m
Temperature	-55		125	° C

Performance by Frequency(Cable Only)

Frequency (MHz)	Insertion Loss(25° C) dB/ft	Average Power(25° C @ Sea Level) Watts
1000	0.115	532
2000	0.168	363
3000	0.211	298
6000	0.317	192
8000	0.377	162
10000	0.432	141
15000	0.557	110
18000	0.626	97

Contact us:
sales@echelon-mw.com
www.echelon-mw.com
770.742.8847



SkyBlue EM-C400 Series, General Purpose Cable Assembly

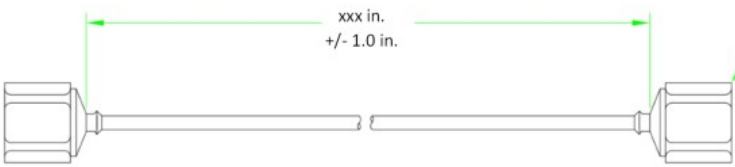
MECHANICAL SPECIFICATION, CONNECTORS		
Description	Connector 1	Connector 2
Type	SMA / N-Type	SMA / N-Type
Interface Spec	MIL-STD-348	MIL-STD-348
Mating Cycles	500	500
Hex Wrench Size	5/16 in / 3/4 in	5/16 in / 3/4 in
Mating Torque	8-10in-lbs/0.9-1.13nm / 14 in-lbs/1.58 nm	8-10in-lbs/0.9-1.13nm / 14 in-lbs/1.58 nm
Material	Stainless Steel	Stainless Steel
Pin	Gold Plated BeCu	Gold Plated BeCu
Dielectric Type	PTFE	PTFE

MECHANICAL SPECIFICATION, CABLE	
Description	Specification
Cable Type	C400 Series (Data Sheet Available)
Diameter	0.138in. (3.51mm)
Weight	0.041kg/m
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Silver Plated Copper
Dielectric Type	LD-PTFE
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Silver Plated Copper Braided Wire
Jacket Material	Blue FEP
Minimum Bend Radius, Static	0.787in. (20.0mm)
Minimum Bend Radius, Dynamic	1.575in. (40.0mm)
Length	Customer Specified

Contact us:
sales@echelon-mw.com
www.echelon-mw.com
770.742.8847



SkyBlue EM-C400 Series, General Purpose Cable Assembly



Connector Options:
N-Type
SMA

Part Number Configurator			
Series	Connector 1	Connector 2	Length (in)
EM-C400	XXXX	XXXX	-XXX

Connector 1		Connector 2	
SMA Male	SMAM	SMA Male	SMAM
SMA Female	SMAF	SMA Female	SMAF
N-Type Male	NTPM	N-Type Male	NTPM
N-Type Female	NTPF	N-Type Female	NTPF

** - If Connector 1 equals Connector 2, leave Connector 2 blank

Example:

EM-C400SMAM-036, 36 inch cable with SMA male both ends

EM-C400SMAFNTPM-048, 48 inch cable with N-Type male and SMA Female connectors