

**Series:** BE70A, Compression Mount, Ganged Cable Assembly**BE70A Series – DOUBLE ROW****PART NUMBER:** BE70A-X-XXXX-X-X-XX-XXXXTRANSMISSION TYPE

- S: STRIPLINE
- M: MICROSTRIP

END 2 CONNECTOR

(SEE TABLE 2, SHT 3)

PHASE MATCHING SPEC (RANGE)

- 2: 2 PICO-SECONDS
- 5: 5 PICO-SECONDS
- N: NO PHASE MATCHING

OVERALL ASSEMBLY LENGTH (OAL)

XXXX (MILLIMETERS)  
(0152 MIN)  
(SEE NOTE 6)

NO OF POSITION (PER ROW)

-02, -03, -04, -06, -08, -10, -12, -14, -16  
(SEE TABLE 4, SHT 3)

NO OF ROWS

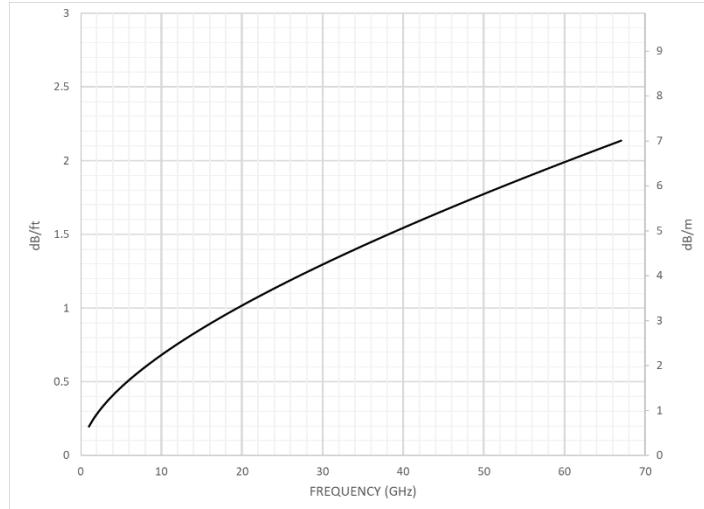
-1 (-02, -04, -08 & -12 POSITIONS ONLY)  
-2 (-03 THROUGH -16 POSITIONS ONLY)

**Series: BE70A, Compression Mount, Ganged Cable Assembly****MATERIAL AND FINISHES**

	<b>Material</b>	<b>Finish</b>
Mounting Screws	Stainless Steel	Passivated
PCB Nuts	Brass	3 $\mu$ " Gold over Nickel
Housing	Brass	1 $\mu$ " Gold over Nickel
Compression Pogo Connector	Brass	10 $\mu$ " Gold over Nickel

**ELECTRICAL DATA**

Impedance	50 Ohm
Frequency Range	DC to 67 GHz
Velocity of Propagation	79%
Capacitance	84 pF/meter
Time Delay	4.20 ns/meter
VSWR <sup>1</sup>	DC to 40 GHz: 1.2 Max 40 GHz to 67: 1.9 Max
Insertion Loss	See Graph

<sup>1</sup>Including 20mm Stripline + BOR + 12" BE70 Cable**MAXIMUM INSERTION LOSS @ T=25°C<sup>2</sup>**<sup>2</sup>Not including connector losses. Connector losses can be approximated as  $0.045x\sqrt{F(\text{GHz})}$  dB/connector.

**Series: BE70A, Compression Mount, Ganged Cable Assembly****MECHANICAL DATA**

Mating Cycles	1000 cycles
Outer Diameter (cable only)	2.54mm
Minimum Bend Radius (Static)	8.9 mm
Minimum Connector Retention	6.80 kg

**ENVIRONMENTAL DATA**

Temperature Range	-65 to 125°C
Thermal Shock	EIA-364-32, -55 to +85°C, 100 Cycles
Thermal Aging	EIA-364-17, 105°C, 250 Hours
Humidity	EIA-364-31, 25 to 65°C, 90%-95% Relative Humidity, 240 Hours

**CONNECTOR OPTIONS**

End Option	Description	Drawing
18SP	1.85mm Plug	<a href="#">PRF18-P-C-EP-086-SS Drawing</a>
18SJ	1.85mm Jack	<a href="#">PRF18-J-C-EP-086-SS Drawing</a>

**REFERENCED DOCUMENTS**

Description	No Of Rows	Drawing
Cable Assembly	Double Row	<a href="#">BE70A-X-XXXX-X-X-XX-XXXX Drawing</a>
	Single Row	<a href="#">BE70A-X-XXXX-X-1-XX-XXXX Drawing</a>
Recommended Footprint	Double Row	<a href="#">BE70A-S-XXXX-X-X-XX-XXXX-Footprint Drawing</a> <a href="#">BE70A-M-XXXX-X-X-XX-XXXX-Footprint Drawing</a>
	Single Row	<a href="#">BE70A-X-XXXX-X-1-XX-XXXX-Footprint Drawing</a>
Replacement Block	Double Row	<a href="#">BE70B-J-X-X-XX Drawing</a>
	Single Row	<a href="#">BE70B-J-1-X-XX Drawing</a>
Replacement Cable	Double/Single Row	<a href="#">BE70C-X-XXXX-X-XX-XXXX Drawing</a>

**USE OF PRODUCT SPECIFICATION SHEET**

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