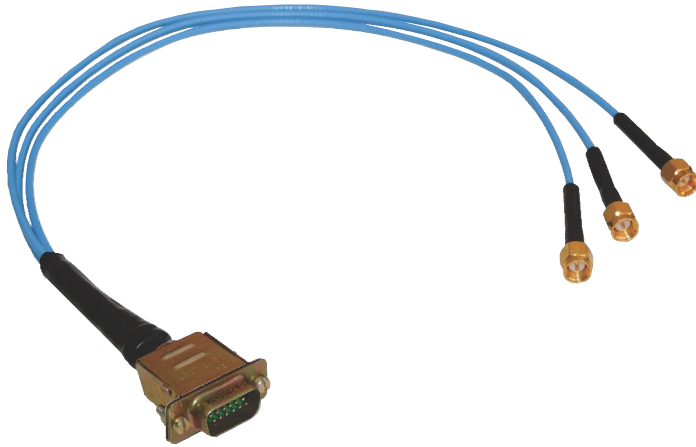


**DC-18 GHz use, flexible cable
MIL-24308 D-Sub Connectors**



Our MIL-24308 D-Sub connectors based RF Cable Sets are ideal for military applications where panel space is at a premium. Instead of using a bunch of RF cables the designer can choose 1 single cable set with D-Sub connectors and with multiple wire configurations. Constructed using MIL-24308 compliant connectors from Cinch, ITT, imported hi-frequency coaxial contacts and Hi-Frequency Coaxial cable from USA.

FEATURES, MIL STD MATERIALS

- MIL-24308 D-Sub connectors are from suppliers like Cinch, Tyco
- MIL-39029 compliant Hi-Frequency Coaxial Inserts
- 2 varieties available for different price ranges for different frequencies : 1 GHz & 18 GHz
- Many combinations of channels available including 3 wire, 8 wire. Pls contact us for custom versions
- Imported Hi-Frequency cable conforms to MIL-C-17

MIL/DEFENSE APPLICATIONS

- Where panel space is at a premium. Multiple discrete RF cables can be substituted by single D-Sub cable set
- Applications where more rugged solution than SMA/N/TNC is needed

Hi-Frequency Insert Arrangements for DC-1 & DC-18 GHz, D-Sub RF Cable Sets



Fig 1
3 RF contacts,
D-Sub Shell size 2,
3W3 Pattern



Fig 2
8 RF contacts,
D-Sub Shell size 4,
8W8 Pattern

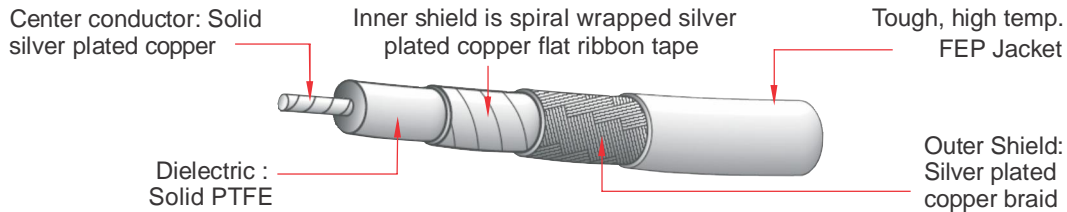
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MIL-24308 D-Sub Based RF Coaxial Cable Sets, DC-18 GHz, MF05 Series

Avoid Multiple Coaxial Cables • Quick Assemble/Disassemble • MIL-24308 compliant Connectors

MF05 Cable Construction



Physical & Mechanical Specifications

Attenuation & Power Handling Data

Frequency	Insertion Loss		Power Watts
	dB/ft	dB/m	
400 MHz	0.14	0.46	190
1 GHz	0.24	0.76	130
2 GHz	0.32	1.05	76
3 GHz	0.39	1.28	62
5 GHz	0.53	1.73	54
10 GHz	0.81	2.65	35
13.5 GHz	0.92	3.01	24
18 GHz	1.11	3.64	20

Dimensions	inches	mm
Center Conductor	0.02"	0.51
Jacket	0.106"	2.70
Bend Radius (static)	0.23"	6
Bend Radius (repeated)	0.78"	20
Weight	0.015 lb/ft (0.020 Kg/m)	
Temperature Range	-55°C ~ +125°C	

Electrical Specifications

Impedance	50 ohms
Velocity of Propagation	70 %
Shielding Effectiveness	better than -90 dB
Capacitance	30 pF/ft
Operating Frequency	18 GHz

Ordering Codes Description

MF05 - (Length) (Connector 1) (Connector 2)
 □ □ - □ (□ / □ / □) - □ (□ / □ / □) - □ - □
L L 1 2 3 4 1 2 3 4 U W

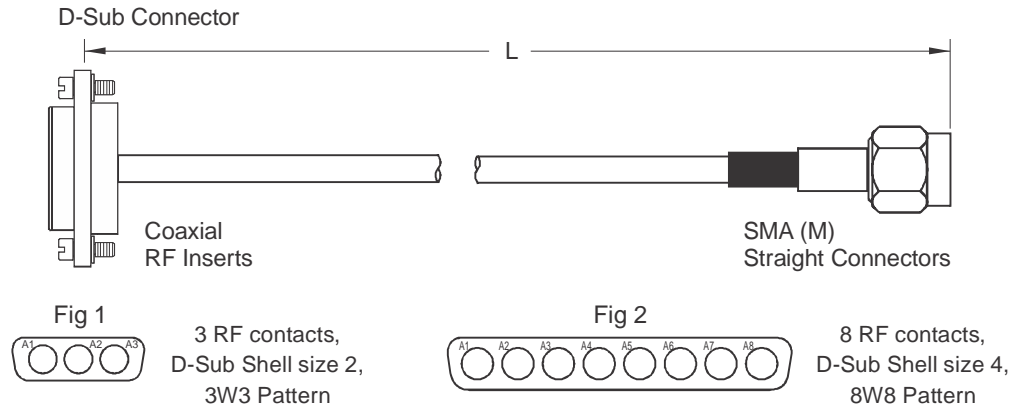
LL	Length	0.5 = 0.5 ; 1 = 1.0 ; 2 = 2.0
1	Connector Series	D-Sub = D-Sub
2	Number of Channels(wires)	3 channel = 3xST ; 8 channel = 8xST
3	Male/Female Designator	P = Plug ; R = Receptacle
4	Insert Pattern Code	3W3 = 3W3 ; 8W8 = 8W8
U	Unit of Length	M = Meter ; F = Feet ; I = Inch
W	Frequency Code	18 GHz = 18G ; 1 GHz = 1G

1m cable set with D-Sub(Male) on both sides, 3 wire, 1GHz = MF05-1.0-D-Sub(3xST/P/3W3)-D-Sub(3xST/P/3W3)-M-1G

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D-Sub ~ SMA Breakout RF Cable Sets Ordering Codes - DC-18 GHz



Ordering Code	Connector 1	Connector 2	Length	Insert Pattern	Insertion Loss (dB)			
					3 GHz	6 GHz	9 GHz	18 GHz
DC-18 GHz, 3 x SMA, D-Sub Plug								
MF05-1.0-D-Sub(3xST/P/3W3)-SMA(3xST/M)-M-18G	D-Sub Plug, 3 x RF	3 x SMA	1 m	Fig 1*	0.82	1.19	1.49	2.23
MF05-2.0-D-Sub(3xST/P/3W3)-SMA(3xST/M)-M-18G	D-Sub Plug, 3 x RF	3 x SMA	2 m	Fig 1*	1.44	2.11	2.68	3.94
MF05-5.0-D-Sub(3xST/P/3W3)-SMA(3xST/M)-M-18G	D-Sub Plug, 3 x RF	3 x SMA	5 m	Fig 1*	2.69	3.94	4.96	7.42
MF05-1.0-D-Sub(3xST/P/3W3)-SMA(3xST/M)-F-18G	D-Sub Plug, 3 x RF	3 x SMA	1 feet	Fig 1*	6.42	9.43	11.88	17.86
DC-18 GHz, 8 x SMA, D-Sub Plug								
MF05-1.0-D-Sub(8xST/P/8W8)-SMA(8xST/M)-M-18G	D-Sub Plug, 8 x RF	8 x SMA	1 m	Fig 2*	0.82	1.19	1.49	2.23
MF05-2.0-D-Sub(8xST/P/8W8)-SMA(8xST/M)-M-18G	D-Sub Plug, 8 x RF	8 x SMA	2 m	Fig 2*	1.44	2.11	2.68	3.94
MF05-5.0-D-Sub(8xST/P/8W8)-SMA(8xST/M)-M-18G	D-Sub Plug, 8 x RF	8 x SMA	5 m	Fig 2*	2.69	3.94	4.96	7.42
MF05-1.0-D-Sub(8xST/P/8W8)-SMA(8xST/M)-F-18G	D-Sub Plug, 8 x RF	8 x SMA	1 feet	Fig 2*	6.42	9.43	11.88	17.86
DC-18 GHz, 3 x SMA, D-Sub Receptacle								
MF05-1.0-D-Sub(3xST/R/3W3)-SMA(3xST/M)-M-18G	D-Sub Recept., 3 x RF	3 x SMA	1 m	Fig 1*	0.82	1.19	1.49	2.23
MF05-2.0-D-Sub(3xST/R/3W3)-SMA(3xST/M)-M-18G	D-Sub Recept., 3 x RF	3 x SMA	2 m	Fig 1*	1.44	2.11	2.68	3.94
MF05-5.0-D-Sub(3xST/R/3W3)-SMA(3xST/M)-M-18G	D-Sub Recept., 3 x RF	3 x SMA	5 m	Fig 1*	2.69	3.94	4.96	7.42
MF05-1.0-D-Sub(3xST/R/3W3)-SMA(3xST/M)-F-18G	D-Sub Recept., 3 x RF	3 x SMA	1 feet	Fig 1*	6.42	9.43	11.88	17.86
DC-18 GHz, 8 x SMA, D-Sub Receptacle								
MF05-1.0-D-Sub(8xST/R/8W8)-SMA(8xST/M)-M-18G	D-Sub Recept., 8 x RF	8 x SMA	1 m	Fig 2*	0.82	1.19	1.49	2.23
MF05-2.0-D-Sub(8xST/R/8W8)-SMA(8xST/M)-M-18G	D-Sub Recept., 8 x RF	8 x SMA	2 m	Fig 2*	1.44	2.11	2.68	3.94
MF05-5.0-D-Sub(8xST/R/8W8)-SMA(8xST/M)-M-18G	D-Sub Recept., 8 x RF	8 x SMA	5 m	Fig 2*	2.69	3.94	4.96	7.42
MF05-1.0-D-Sub(8xST/R/8W8)-SMA(8xST/M)-F-18G	D-Sub Recept., 8 x RF	8 x SMA	1 feet	Fig 2*	6.42	9.43	11.88	17.86

* For detailed mechanical dimensions, panel cutouts refer to standard D-Sub connector datasheets

* Other connectors like TNC, N, BMA etc available - substitute instead of SMA in P/N

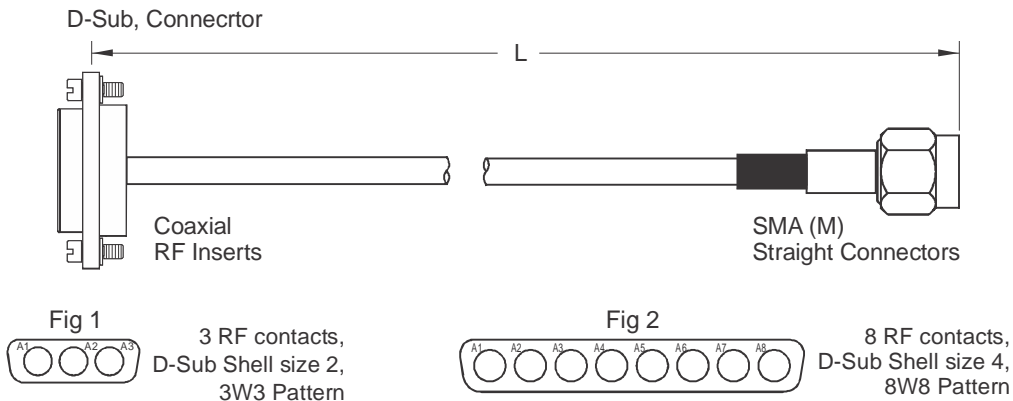
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MIL-24308 D-Sub Based RF Coaxial Cable Sets, DC-18 GHz, MF05 Series

Avoid Multiple Coaxial Cables • Quick Assemble/Disassemble • MIL-24308 compliant Connectors

D-Sub ~ SMA Breakout RF Cable Sets Ordering Codes - DC-1 GHz



Ordering Code	Connector 1	Connector 2	Length	Insert Pattern	Insertion Loss (dB)			
					0.5 GHz			
DC-1 GHz, 3 x SMA, D-Sub Plug								
MF05-1.0-D-Sub(3xST/P/3W3)-SMA(3xST/M)-M-1G	D-Sub Plug, 3 x RF	3 x SMA	1 m	Fig 1*	0.33	-	-	-
MF05-2.0-D-Sub(3xST/P/3W3)-SMA(3xST/M)-M-1G	D-Sub Plug, 3 x RF	3 x SMA	2 m	Fig 1*	0.58	-	-	-
MF05-5.0-D-Sub(3xST/P/3W3)-SMA(3xST/M)-M-1G	D-Sub Plug, 3 x RF	3 x SMA	5 m	Fig 1*	2.62	-	-	-
MF05-1.0-D-Sub(3xST/P/3W3)-SMA(3xST/M)-F-1G	D-Sub Plug, 3 x RF	3 x SMA	1 feet	Fig 1*	0.22	-	-	-
DC-1 GHz, 8 x SMA, D-Sub Plug								
MF05-1.0-D-Sub(8xST/P/8W8)-SMA(8xST/M)-M-1G	D-Sub Plug, 8 x RF	8 x SMA	1 m	Fig 2*	0.33	-	-	-
MF05-2.0-D-Sub(8xST/P/8W8)-SMA(8xST/M)-M-1G	D-Sub Plug, 8 x RF	8 x SMA	2 m	Fig 2*	0.58	-	-	-
MF05-5.0-D-Sub(8xST/P/8W8)-SMA(8xST/M)-M-1G	D-Sub Plug, 8 x RF	8 x SMA	5 m	Fig 2*	2.62	-	-	-
MF05-1.0-D-Sub(8xST/P/8W8)-SMA(8xST/M)-F-1G	D-Sub Plug, 8 x RF	8 x SMA	1 feet	Fig 2*	0.22	-	-	-
DC-1 GHz, 3 x SMA, D-Sub Receptacle								
MF05-1.0-D-Sub(3xST/R/3W3)-SMA(3xST/M)-M-1G	D-Sub Recept., 3 x RF	3 x SMA	1 m	Fig 1*	0.33	-	-	-
MF05-2.0-D-Sub(3xST/R/3W3)-SMA(3xST/M)-M-1G	D-Sub Recept., 3 x RF	3 x SMA	2 m	Fig 1*	0.58	-	-	-
MF05-5.0-D-Sub(3xST/R/3W3)-SMA(3xST/M)-M-1G	D-Sub Recept., 3 x RF	3 x SMA	5 m	Fig 1*	2.62	-	-	-
MF05-1.0-D-Sub(3xST/R/3W3)-SMA(3xST/M)-F-1G	D-Sub Recept., 3 x RF	3 x SMA	1 feet	Fig 1*	0.22	-	-	-
DC-1 GHz, 8 x SMA, D-Sub Receptacle								
MF05-1.0-D-Sub(8xST/R/8W8)-SMA(8xST/M)-M-1G	D-Sub Recept., 8 x RF	8 x SMA	1 m	Fig 2*	0.33	-	-	-
MF05-2.0-D-Sub(8xST/R/8W8)-SMA(8xST/M)-M-1G	D-Sub Recept., 8 x RF	8 x SMA	2 m	Fig 2*	0.58	-	-	-
MF05-5.0-D-Sub(8xST/R/8W8)-SMA(8xST/M)-M-1G	D-Sub Recept., 8 x RF	8 x SMA	5 m	Fig 2*	2.62	-	-	-
MF05-1.0-D-Sub(8xST/R/8W8)-SMA(8xST/M)-F-1G	D-Sub Recept., 8 x RF	8 x SMA	1 feet	Fig 2*	0.22	-	-	-

* For detailed mechanical dimensions, panel cutouts refer to standard D-Sub connector datasheets

* Other connectors like TNC, N, BMA etc available - substitute instead of SMA in P/N

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D-Sub ~ D-Sub RF Cable Sets Ordering Codes - DC-18 GHz

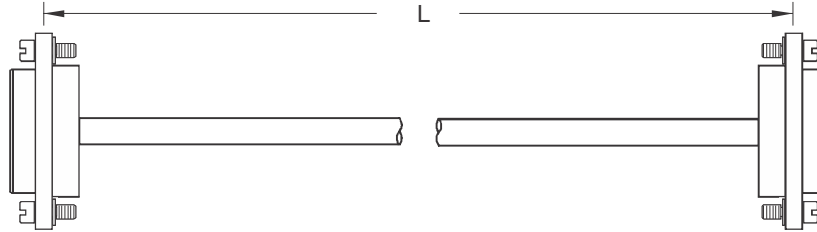


Fig 1
3 RF contacts,
D-Sub Shell size 2,
3W3 Pattern

Fig 2
8 RF contacts,
D-Sub Shell size 4,
8W8 Pattern

Ordering Code	Connector 1	Connector 2	Length	Insert Pattern	Insertion Loss (dB)			
					3 GHz	6 GHz	9 GHz	18 GHz
DC-18 GHz, D-Sub Receptacle 3 x RF ~ D-Sub Plug 3 x RF								
MF05-1.0-D-Sub(3xST/R/3W3)-D-Sub(3xST/P/3W3)-M-1G	D-Sub Recept., 3 x RF	D-Sub Plug., 3 x RF	1 m	Fig 1*	0.82	1.19	1.49	2.23
MF05-2.0-D-Sub(3xST/R/3W3)-D-Sub(3xST/P/3W3)-M-1G	D-Sub Recept., 3 x RF	D-Sub Plug., 3 x RF	2 m	Fig 1*	1.44	2.11	2.68	3.94
MF05-5.0-D-Sub(3xST/R/3W3)-D-Sub(3xST/P/3W3)-M-1G	D-Sub Recept., 3 x RF	D-Sub Plug., 3 x RF	5 m	Fig 1*	2.69	3.94	4.96	7.42
DC-18 GHz, D-Sub Receptacle 3 x RF ~ D-Sub Receptacle 3 x RF								
MF05-1.0-D-Sub(3xST/R/3W3)-D-Sub(3xST/R/3W3)-M-18G	D-Sub Recept., 3 x RF	D-Sub Recept., 3 x RF	1 m	Fig 1*	0.82	1.19	1.49	2.23
MF05-2.0-D-Sub(3xST/R/3W3)-D-Sub(3xST/R/3W3)-M-18G	D-Sub Recept., 3 x RF	D-Sub Recept., 3 x RF	2 m	Fig 1*	1.44	2.11	2.68	3.94
MF05-5.0-D-Sub(3xST/R/3W3)-D-Sub(3xST/R/3W3)-M-18G	D-Sub Recept., 3 x RF	D-Sub Recept., 3 x RF	5 m	Fig 1*	2.69	3.94	4.96	7.42
DC-18 GHz, D-Sub Plug 3 x RF ~ D-Sub Plug 3 x RF								
MF05-1.0-D-Sub(3xST/P/3W3)-D-Sub(3xST/P/3W3)-M-18G	D-Sub Plug., 3 x RF	D-Sub Plug., 3 x RF	1 m	Fig 1*	0.82	1.19	1.49	2.23
MF05-2.0-D-Sub(3xST/P/3W3)-D-Sub(3xST/P/3W3)-M-18G	D-Sub Plug., 3 x RF	D-Sub Plug., 3 x RF	2 m	Fig 1*	1.44	2.11	2.68	3.94
MF05-5.0-D-Sub(3xST/P/3W3)-D-Sub(3xST/P/3W3)-M-18G	D-Sub Plug., 3 x RF	D-Sub Plug., 3 x RF	5 m	Fig 1*	2.69	3.94	4.96	7.42
DC-18 GHz, D-Sub Receptacle 8 x RF ~ D-Sub Plug 8 x RF								
MF05-1.0-D-Sub(8xST/R/8W8)-D-Sub(8xST/P/8W8)-M-18G	D-Sub Recept., 8 x RF	D-Sub Plug., 8 x RF	1 m	Fig 2*	0.82	1.19	1.49	2.23
MF05-2.0-D-Sub(8xST/R/8W8)-D-Sub(8xST/P/8W8)-M-18G	D-Sub Recept., 8 x RF	D-Sub Plug., 8 x RF	2 m	Fig 2*	1.44	2.11	2.68	3.94
MF05-5.0-D-Sub(8xST/R/8W8)-D-Sub(8xST/P/8W8)-M-18G	D-Sub Recept., 8 x RF	D-Sub Plug., 8 x RF	5 m	Fig 2*	2.69	3.94	4.96	7.42
DC-18 GHz, D-Sub Receptacle 8 x RF ~ D-Sub Receptacle 8 x RF								
MF05-1.0-D-Sub(8xST/R/8W8)-D-Sub(8xST/R/8W8)-M-18G	D-Sub Recept., 8 x RF	D-Sub Recept., 8 x RF	1 m	Fig 2*	0.82	1.19	1.49	2.23
MF05-2.0-D-Sub(8xST/R/8W8)-D-Sub(8xST/R/8W8)-M-18G	D-Sub Recept., 8 x RF	D-Sub Recept., 8 x RF	2 m	Fig 2*	1.44	2.11	2.68	3.94
MF05-5.0-D-Sub(8xST/R/8W8)-D-Sub(8xST/R/8W8)-M-18G	D-Sub Recept., 8 x RF	D-Sub Recept., 8 x RF	5 m	Fig 2*	2.69	3.94	4.96	7.42
DC-18 GHz, D-Sub Plug 8 x RF ~ D-Sub Plug 8 x RF								
MF05-1.0-D-Sub(8xST/P/8W8)-D-Sub(8xST/P/8W8)-M-18G	D-Sub Plug., 8 x RF	D-Sub Plug., 8 x RF	1 m	Fig 2*	0.82	1.19	1.49	2.23
MF05-2.0-D-Sub(8xST/P/8W8)-D-Sub(8xST/P/8W8)-M-18G	D-Sub Plug., 8 x RF	D-Sub Plug., 8 x RF	2 m	Fig 2*	1.44	2.11	2.68	3.94
MF05-5.0-D-Sub(8xST/P/8W8)-D-Sub(8xST/P/8W8)-M-18G	D-Sub Plug., 8 x RF	D-Sub Plug., 8 x RF	5 m	Fig 2*	2.69	3.94	4.96	7.42

* For detailed mechanical dimensions, panel cutouts refer to standard D-Sub connector datasheets

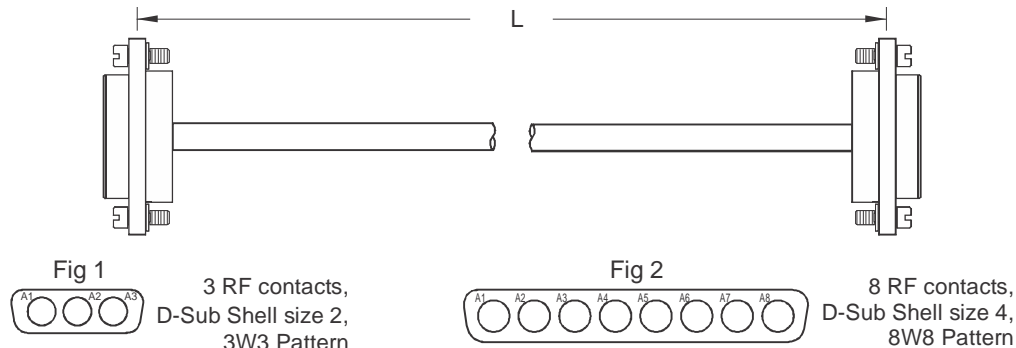
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Avoid Multiple Coaxial Cables • Quick Assemble/Disassemble • MIL-24308 compliant Connectors

D-Sub ~ D-Sub RF Cable Sets Ordering Codes - DC-1 GHz



Ordering Code	Connector 1	Connector 2	Length	Insert Pattern	Insertion Loss (dB)			
					0.5 GHz			
DC-1 GHz, D-Sub Receptacle 3 x RF ~ D-Sub Plug 3 x RF								
MF05-1.0-D-Sub(3xST/R/3W3)- D-Sub(3xST/P/3W3)-M-1G	D-Sub Recept., 3 x RF	D-Sub Plug., 3 x RF	1 m	Fig 1*	0.33	-	-	-
MF05-2.0-D-Sub(3xST/R/3W3)- D-Sub(3xST/P/3W3)-M-1G	D-Sub Recept., 3 x RF	D-Sub Plug., 3 x RF	2 m	Fig 1*	0.58	-	-	-
MF05-5.0-D-Sub(3xST/R/3W3)- D-Sub(3xST/P/3W3)-M-1G	D-Sub Recept., 3 x RF	D-Sub Plug., 3 x RF	5 m	Fig 1*	2.62	-	-	-
DC-1 GHz, D-Sub Receptacle 3 x RF ~ D-Sub Receptacle 3 x RF								
MF05-1.0-D-Sub(3xST/R/3W3)- D-Sub(3xST/R/3W3)-M-1G	D-Sub Recept., 3 x RF	D-Sub Recept., 3 x RF	1 m	Fig 1*	0.33	-	-	-
MF05-2.0-D-Sub(3xST/R/3W3)- D-Sub(3xST/R/3W3)-M-1G	D-Sub Recept., 3 x RF	D-Sub Recept., 3 x RF	2 m	Fig 1*	0.58	-	-	-
MF05-5.0-D-Sub(3xST/R/3W3)- D-Sub(3xST/R/3W3)-M-1G	D-Sub Recept., 3 x RF	D-Sub Recept., 3 x RF	5 m	Fig 1*	2.62	-	-	-
DC-1 GHz, D-Sub Plug 3 x RF ~ D-Sub Plug 3 x RF								
MF05-1.0-D-Sub(3xST/P/3W3)- D-Sub(3xST/P/3W3)-M-1G	D-Sub Plug., 3 x RF	D-Sub Plug., 3 x RF	1 m	Fig 1*	0.33	-	-	-
MF05-2.0-D-Sub(3xST/P/3W3)- D-Sub(3xST/P/3W3)-M-1G	D-Sub Plug., 3 x RF	D-Sub Plug., 3 x RF	2 m	Fig 1*	0.58	-	-	-
MF05-5.0-D-Sub(3xST/P/3W3)- D-Sub(3xST/P/3W3)-M-1G	D-Sub Plug., 3 x RF	D-Sub Plug., 3 x RF	5 m	Fig 1*	2.62	-	-	-
DC-1 GHz, D-Sub Receptacle 8 x RF ~ D-Sub Plug 8 x RF								
MF05-1.0-D-Sub(8xST/R/8W8)- D-Sub(8xST/P/8W8)-M-1G	D-Sub Recept., 8 x RF	D-Sub Plug., 8 x RF	1 m	Fig 2*	0.33	-	-	-
MF05-2.0-D-Sub(8xST/R/8W8)- D-Sub(8xST/P/8W8)-M-1G	D-Sub Recept., 8 x RF	D-Sub Plug., 8 x RF	2 m	Fig 2*	0.58	-	-	-
MF05-5.0-D-Sub(8xST/R/8W8)- D-Sub(8xST/P/8W8)-M-1G	D-Sub Recept., 8 x RF	D-Sub Plug., 8 x RF	5 m	Fig 2*	2.62	-	-	-
DC-1 GHz, D-Sub Receptacle 8 x RF ~ D-Sub Receptacle 8 x RF								
MF05-1.0-D-Sub(8xST/R/8W8)- D-Sub(8xST/R/8W8)-M-1G	D-Sub Recept., 8 x RF	D-Sub Recept., 8 x RF	1 m	Fig 2*	0.33	-	-	-
MF05-2.0-D-Sub(8xST/R/8W8)- D-Sub(8xST/R/8W8)-M-1G	D-Sub Recept., 8 x RF	D-Sub Recept., 8 x RF	2 m	Fig 2*	0.58	-	-	-
MF05-5.0-D-Sub(8xST/R/8W8)- D-Sub(8xST/R/8W8)-M-1G	D-Sub Recept., 8 x RF	D-Sub Recept., 8 x RF	5 m	Fig 2*	2.62	-	-	-
DC-1 GHz, D-Sub Plug 8 x RF ~ D-Sub Plug 8 x RF								
MF05-1.0-D-Sub(8xST/P/8W8)- D-Sub(8xST/P/8W8)-M-1G	D-Sub Plug., 8 x RF	D-Sub Plug., 8 x RF	1 m	Fig 2*	0.33	-	-	-
MF05-2.0-D-Sub(8xST/P/8W8)- D-Sub(8xST/P/8W8)-M-1G	D-Sub Plug., 8 x RF	D-Sub Plug., 8 x RF	2 m	Fig 2*	0.58	-	-	-
MF05-5.0-D-Sub(8xST/P/8W8)- D-Sub(8xST/P/8W8)-M-1G	D-Sub Plug., 8 x RF	D-Sub Plug., 8 x RF	5 m	Fig 2*	2.62	-	-	-

* For detailed mechanical dimensions, panel cutouts refer to standard D-Sub connector datasheets

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Specifications for D-Sub to D-Sub RF Coaxial Cable Sets

Length Connector 1 Connector 2

- Should be flexible, easily routable
- Cable should conform to MIL standards MIL-C-17 and connectors to MIL-24308

Cable Electrical Specifications

- Impedance: 50 ohms
- Frequency: DC~18 GHz
- Velocity of Propagation: 70 %
- Shielding Effectiveness: better than -90 dB
- Power Handling: > 55 Watts Average @3 GHz
> 25 Watts Average @10 GHz
> 15 Watts Average @18 GHz
- Insertion Loss: < 0.40 dB/feet @3 GHz
< 0.82 dB/feet @10 GHz
< 1.12 dB/feet @18 GHz
- VSWR: < 1.45 (DC~1 Ghz type)
< 1.40 (DC~18 Ghz types)

Cable Physical & Mechanical Specifications

- Construction should be double shielded
- Inner Conductor: Silver Covered Copper Wire
- Dielectric: PTFE
- Inner Shield: Silver Plated Copper Flat Ribbon Tape
- Outer Shield: Silver-Plated Copper Braid
- Jacket: Rugged Fluorinated Ethylene Propylene (FEP) suitable for harsh environment
- Overall diameter: < 2.8 mm
- Bending Radius: < 20 mm repeated, <6mm static
- Temperature Range: -55°C ~ +125°C

Specifications of D-Sub connectors

- Qualification : Conform to MIL-24308
- Operating Temp. : -55°C ~ +125°C
- Vibration : 12 cycles in 3 directions @10-2000Hz, MIL-STD-202 Method 204, Condition D
- Shock : 50 g's, MIL-STD-202 Method 213, Condition G
- Moisture Resistance : 90-95% RH @40°C for 96 hours, MIL-STD-202 Method 103
- Metal Shell : Steel, Yellow Chromate finish over cadmium plating
- Insulator : Glass filled diallyl phthalate per MIL-M-14, Type SDG-4
- Insulation Resistance : 5000 MΩ min. (initial) ; 1000 MΩ min. (after env. Testing)
- Test Voltage (sea Level) : 1250 VAC
- Mating Life : 500 mating cycles min.

Specifications for D-Sub to SMA Breakout RF Coaxial Cable Sets

Length Connector 1 Connector 2

- Should be flexible, easily routable
- Cable should conform to MIL standards MIL-C-17 and connectors to MIL-24308

Cable Electrical Specifications

- Impedance: 50 ohms
- Frequency: DC~18 GHz
- Velocity of Propagation: 70 %
- Shielding Effectiveness: better than -90 dB
- Power Handling: > 55 Watts Average @3 Ghz
> 25 Watts Average @10 GHz
> 15 Watts Average @18 GHz
- Insertion Loss: < 0.40 dB/feet @3 GHz
< 0.82 dB/feet @10 GHz
< 1.12 dB/feet @18 GHz
- VSWR: < 1.45 (DC~1 Ghz types)
< 1.40 (DC~18 Ghz types)

Cable Physical & Mechanical Specifications

- Construction should be double shielded
- Inner Conductor: Silver Covered Copper Wire
- Dielectric: PTFE
- Inner Shield: Silver Plated Copper Flat Ribbon Tape
- Outer Shield: Silver-Plated Copper Braid
- Jacket: Rugged Fluorinated Ethylene Propylene (FEP) suitable for harsh environment
- Overall diameter: < 2.8 mm
- Bending Radius: < 20 mm repeated, <6mm static
- Temperature Range: -55°C ~ +125°C

Connector Specifications (SMA, N, TNC)

- Outer Conductor: Brass/Stainless Steel, Gold plated
- Center Conductor: Brass, Gold Plated
- Insulation: PTFE
- Frequency range: DC~18 GHz for SMA straight, DC~11 GHz for SMA right angle
- Frequency range: DC~11 GHz for N and TNC straight
- Should meet test conditions of MIL-STD-202 for vibration, mechanical shock, corrosion, humidity, temperature cycling

Specifications of D-Sub connectors

- Should conform to MIL-24308
- Operating Temp. : -55°C ~ +125°C
- Metal Shell : Steel/Brass, Zince plated
- Insulator : Black Polyester
- Insulation Resistance : 5000 MΩ min.
- Test Voltage (sea Level) : 1250 VAC
- Mating Life : 500 mating cycles min.