

8576-0150

RF Drop-In Jumper Assembly for Multiport Connectors With Flexible 962-025 Series Coax



TYPICAL CABLE ASSEMBLY INSERTION LOSS

- See Table II for k-factors.
(dB)=[(inches/12) x {(K1 x (f MHz)^{0.5} + (K2 x f MHz)} + [end X + end Y connector loss] (Table III)]

SPECIFICATIONS

- Impedance: 50 ohm nom.
- Frequency range: per lowest connector max frequency range
- Typical connector VSWR: see Table I.

NOTES

- Refer to connector drawings for materials, finish, electrical performance, and dimension details.
- Refer to cable drawings for materials, electrical performance, and dimensional details.

HOW TO ORDER

Sample Part Number		8576-0150	-047	-BM	P1	-SS	S1	-12
Series	8576-0150 = RF Jumper Assembly, with Flexible 962-025 Series Coax							
962-025 Series Cable Diameter	-047 = 962-025-047 -086 = 962-025-086 -141 = 962-025-141							
Connector Interface (End X)	-BM = BMB Contact -SM = SMPM Contact -SS = SMPs Contact -NV = Nano Vita 67.3 Contact							
Contact Type (End X)	Per Table IV							
Contact Interface or Connector Series (End Y)	-BM = BMB Contact -SM = SMPM Contact -SS = SMPs Contact -NV = Nano Vita 67.3 Contact -A = N Series -B = ATNC Series -C = SMA Series -D = 2.92mm Series -E = SMP Series -F = SMPM Series -G = SMPs Series							
Contact Type (End Y)	Per Table IV							
Connector Configuration (End Y)	Per Table V							
Cable Length	In Inches							

TABLE I: TYPICAL CONNECTOR VSWR

Assembly Connector Configuration	VSWR
Two Straight Contacts/Connectors	1.35:1
One Straight Contact/Connector and One Right Angle Connector	1.40:1

TABLE III - TYPICAL CONNECTOR LOSS

Connector Type	Loss Formula
Straight Contact/Connector	0.0009 x √f MHz
Right Angle Connector	0.0011 x √f MHz

TABLE II - CABLE INSERTION LOSS

Cable Size	K1	K2	Description
047	0.0118313	0.0000099	RF Coax Cable, Low Loss
086	0.0067718	0.0000087	
141	0.0033037	0.0000393	

TABLE IV: CONTACT CONFIGURATIONS

Interface Series	Contact Type	Compatible with 962-025-141	Compatible with 962-025-086	Compatible with 962-025-047
- BM #8 BMB Contact, 18 GHz Max	P1: Pin (Series 233, 806RF, 795)	Yes	Yes	Yes
	S1: Skt (Series 806RF, 795)	Yes	Yes	Yes
	S2: Skt (Series 233)	Yes	Yes	Yes
- SM #12 SMPM Contact, 40 GHz Max	P1: Pin (Series 233, 801-806, 806RF, 791, 795)	*Note	Yes	Yes
	S1: Skt (Series 801-806, 806RF, 791, 795)	*Note	Yes	Yes
	S2: Skt (Series 233)	*Note	Yes	Yes
	BV: Backplane Vita 67.3	-	Yes	Yes
- SS #16 SMPs Contact, 40 GHz Max	MV: Module Vita 67.3	-	Yes	Yes
	P1: Pin (Series 233, 801-806, 806RF, 791, 795)	-	Yes	Yes
	S1: Skt (Series 801-806, 806RF, 791, 795)	-	Yes	Yes
- NV Nano Vita 67.3 Contact, 40 GHz Max	S2: Skt (Series 233)	-	Yes	Yes
	BV: Backplane Vita 67.3	-	-	Yes
	MV: Module Vita 67.3	-	-	Yes

*Note: consult factory for configuration availability.

RF, Microwave, and mmWave Interconnects

Contact Jumper and Connector Assemblies

8576-0150

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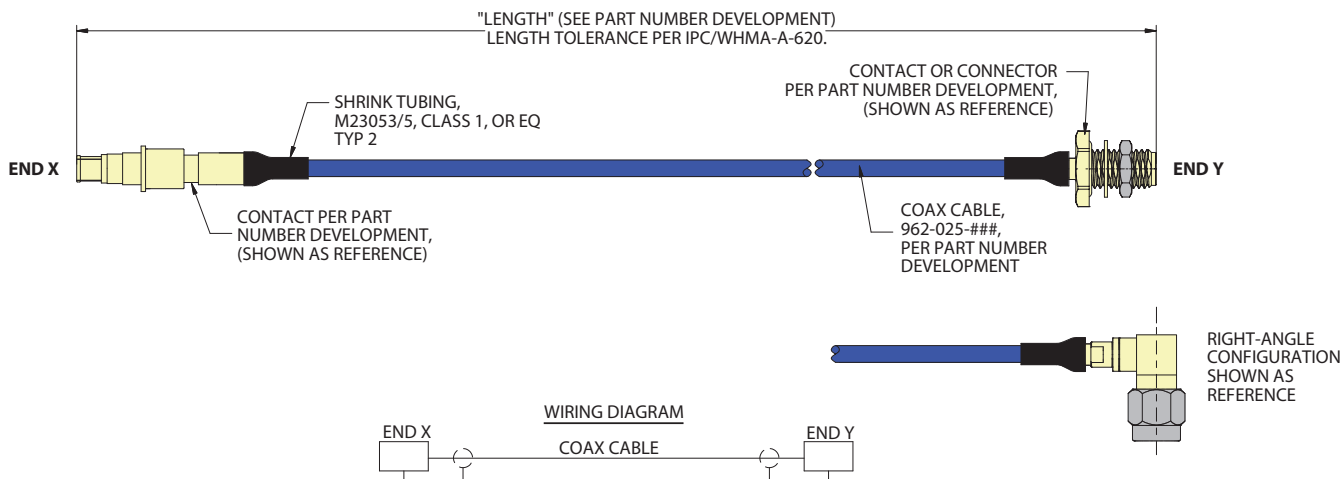


TABLE IV: CONNECTOR CONFIGURATIONS

Interface Series	Connector Configuration	Compatible with 962-025-141	Compatible with 962-025-086	Compatible with 962-025-047
- A N Series Freq: DC-18 GHz	MS: Male, Straight	*Note	*Note	-
	MR: Male, Right Angle	*Note	*Note	-
	MSL: Male, Straight, Locking	-	-	-
	MRL: Male, Right Angle, Locking	-	-	-
	FB: Female, Bulkhead	-	-	-
- B ATNC Series Freq: DC-18 GHz	MS: Male, Straight	Yes	Yes	*Note
	MR: Male, Right Angle	Yes	Yes	*Note
	MSL: Male, Straight, Locking	-	-	-
	MRL: Male, Right Angle, Locking	-	-	-
	FB: Female, Bulkhead	Yes	Yes	*Note
- C SMA Series Freq: DC-18 GHz	MS: Male, Straight	Yes	Yes	Yes
	MR: Male, Right Angle	Yes	Yes	Yes
	MSL: Male, Straight, Locking	-	-	-
	MRL: Male, Right Angle, Locking	-	-	-
	FB: Female, Bulkhead	Yes	Yes	Yes
- D 2.92mm Series Freq: DC-40 GHz	MS: Male, Straight	Yes	Yes	Yes
	MR: Male, Right Angle	*Note	*Note	*Note
	MSL: Male, Straight, Locking	-	-	-
	MRL: Male, Right Angle, Locking	-	-	-
	FB: Female, Bulkhead	Yes	Yes	Yes
- E SMP Series Freq: DC-40 GHz	FS: Female, Straight	-	Yes	Yes
	FR: Female, Right Angle	-	Yes	Yes
- F SMPM Series Freq: DC-40 GHz	FS: Female, Straight	-	Yes	Yes
	FR: Female, Right Angle	-	Yes	Yes
- G SMPS Series Freq: DC-40 GHz	FS: Female, Straight	-	-	Yes
	FR: Female, Right Angle	-	-	Yes

*Note: consult factory for configuration availability.