



TRU MEIA™ Series

Tru-Win™ MEIA™ offers the latest innovation in high power connector design. The MEIA™ interface provides equivalent kW power handling compared to similar EIA connector line sizes but provides a 30% smaller and 40% lighter form factor with a high efficiency, threaded coupling mechanism. This threaded coupling eliminates issues inherently found in mechanically aligning and fastening a flanged EIA interface with individual bolts.





Tru products are now under the Tru-Win™ brand from Winchester Interconnect.

MEIA™ Series Cable Assemblies and Connectors

The MEIA™ series is available with our flexible TRU-560 and TRU-500 cables to create an unmatched combination of high power and flexibility to suit your challenging applications. MEIA™ series, high power panel mount receptacles can be customized to the optimal launch geometry for your equipment to ensure performance and safety. MEIA™ to EIA adapters are available to allow transformation of your existing EIA connections to the more efficient MEIA™ interface coupling.

Winchester's long heritage in high power design has made us a premier supplier in high power markets including critical safety applications in the industrial equipment segment. Our experienced technical staff is available to personally answer all your technical questions.

MEIA™ Series Cable Assemblies and Connectors

- Threaded coupling version of EIA interface
- kW power handling capability equivalent to EIA, greater than 7-16 and LC interfaces
- 30% smaller, 40% lighter than similar EIA connector
- Easy to install vs mechanical flange and bolt attachment

Specifying High Power RF Cable Assemblies

Ordering Specifications

Cable Codes	Description
56B	TRU-560
50B	TRU-500

Connector Codes*	Description
31	MEIA-1625 straight (m)
29	MEIA-875 straight (m)
16	EIA 1-5/8 straight (m)
15	EIA 7/8 straight (m)



Comparison of MEIA-1625 to a comparable EIA 1-5/8 connector. MEIA™ is more than 30% smaller and 40% lighter, with a more efficient threaded coupling interface. MEIA™ line sizes are the same as EIA line sizes and can handle equivalent power.

Nomenclature

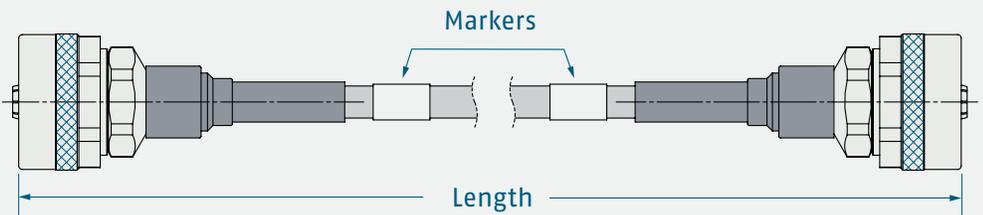
TRU - XXX XXXX - XXX

1 | **2** | **3** | **4**

1. Cable type
2. Connector type 1
3. Connector type 2
4. Length measured end to end.
Ex: 125 is 12.5 feet**
Add "M" as suffix for metric.
Ex: 305M is 30.5 meters†

Standard Cable Assembly Length Tolerances

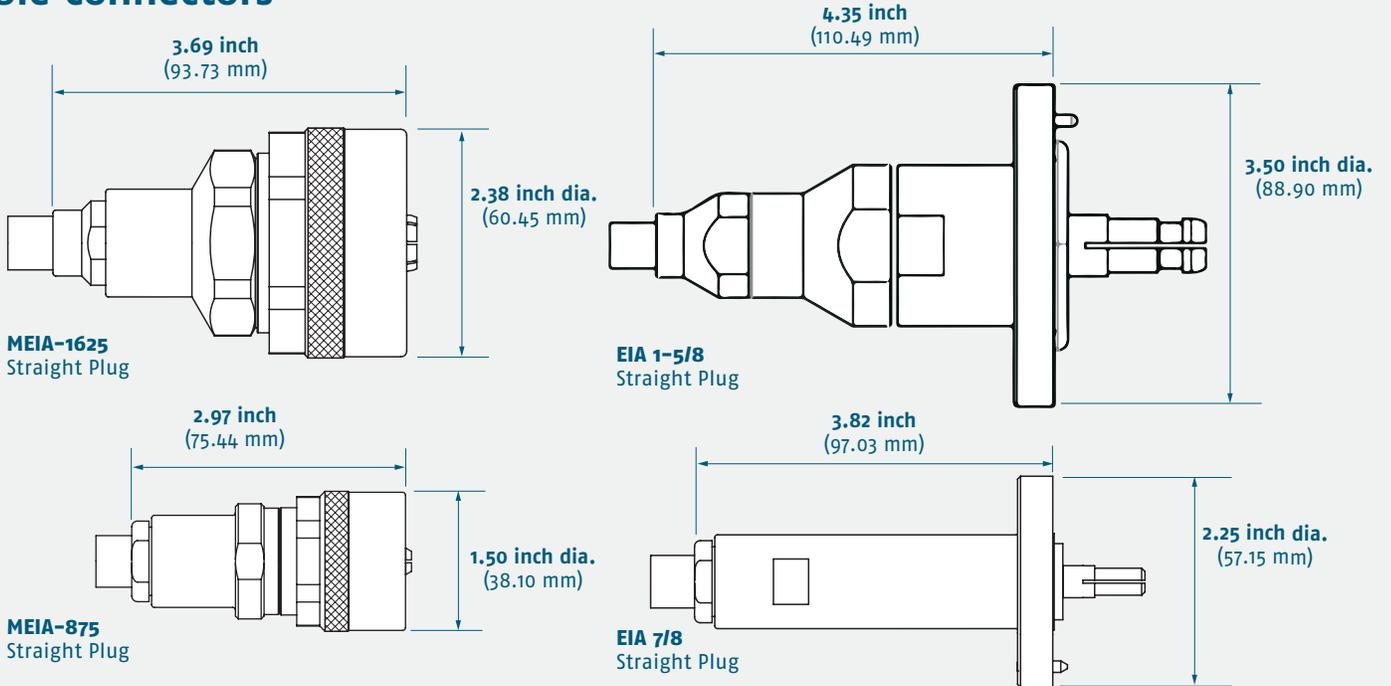
Lengths ≤ 50 in (1.270 mm), tolerance = +/- 0.50 in (12.7 mm)
Lengths > 50 in (1.270 mm), tolerance = +/- 1% of length



- * Designate the lower number connector code first in the part number specification sequence
Example: TRU-XXB163-XXX
- ** Specify length in 0.5 ft increments
- † Specify length in 0.1 m increments

MEIA Series

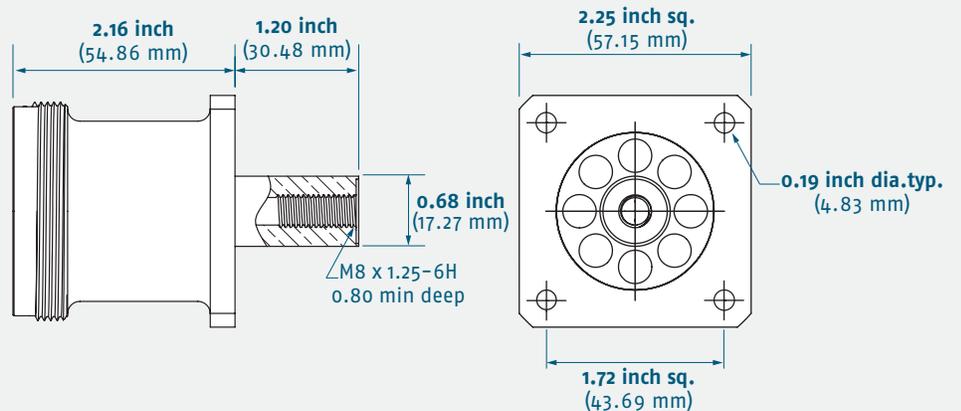
Cable Connectors



Panel Mount Receptacles

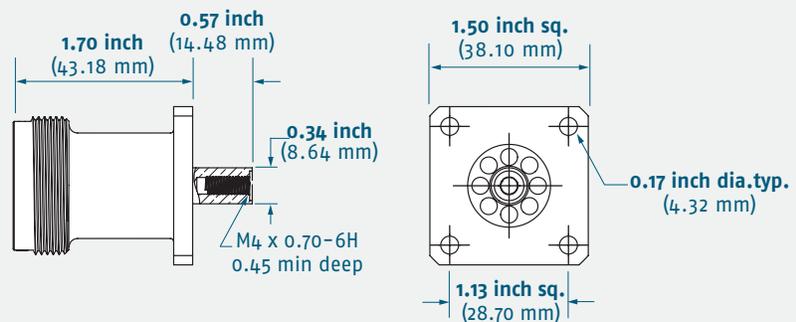
MEIA-1625 flange mount jack receptacle
 internal threaded backend contact

Part Number	Finish
TRU-12496	Nickel



MEIA-875 flange mount jack receptacle
 internal threaded backend contact

Part Number	Finish
TRU-12590	Nickel



MEIA-1625

(same line size as EIA 1-5/8)

MEIA-875

0.545 inch (13.8 mm)

Electrical

Frequency (maximum)	3 GHz	6 GHz	
Impedance (Ohms-nominal)	50	50	
Voltage Rating (Vrms)	5,100	2,800	
Dielectric Withstanding Voltage (Vrms)	10,400	5,800	
Power Rating (kW)*			
*Sea level, 40°C, matched load, interface only	10 MHz	50.00	18.00
	50 MHz	23.00	8.00
	100 MHz	17.00	5.60
	500 MHz	7.00	2.50
	1,000 MHz	4.80	1.80
	2,000 MHz	3.50	1.30
	3,000 MHz	2.90	1.10
	4,000 MHz		1.00
	5,000 MHz		0.90
	6,000 MHz		0.82

Mechanical

Mating Cycles (minimum)	> 500	> 500
Mating Torque (nominal)	165 in-lbs (18.6 Nm)	70 in-lbs (7.9 Nm)

Environmental

Operating Temperature	-65°C to +165°C
Vibration	MIL-STD-202 method 204
Shock	MIL-STD-202 method 213
Moisture Resistance	MIL-STD-202 method 106
Corrosion	MIL-STD-202 method 101
Body	Brass, nickel plated
Contacts (inner)	
Female	Brass, silver plated
Male	Beryllium copper, silver plated

Materials/Finish

Insulators	Teflon
Gaskets and Seals	Silicone rubber

* Sea level 40°C, matched load

Coaxial Cable Reference Chart

	TRU-560	TRU-500
Cable Outer Diameter	0.56 inch (14.2 mm) nominal	0.49 inch (12.4 mm) nominal
Center Conductor (stranded/solid)	7 strand	7 strand
Cable Dielectric (construction/material)	Tape-E/PTFE	Tape-E/PTFE
Shields (number)	2	2
Shields (type)	Silver plated copper Flat and round	Silver plated copper Flat and round
Cable Jacket (material/color)	PVC blue	FEP blue
Cable Operating Temperature (°C)	-55 to +105	-55 to +200
Cable Minimum Bend Radius (static)	1.70 inch (43.2 mm)	1.50 inch (38.1 mm)
Cable Minimum Bend Radius (dynamic)	2.80 inch (71.1 mm)	2.45 inch (62.2 mm)
Frequency (maximum)	6 GHz	6 GHz
Impedance (Ohms-nominal)	50	50
Capacitance pF/ft (pF/m)	26.8 (87.9)	26.8 (87.9)
Shielding Effectiveness (dB)	> -75	> -75
Velocity of Propagation (% nominal)	77	77
Weight lbs/ft (Kg/m)	0.240 (0.357) 0.230 (0.342)	50
Voltage	12 kV	12 kV

Power Rating (kW)*

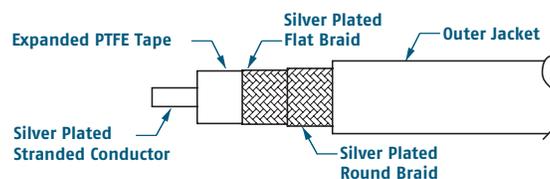
	TRU-560	TRU-500
50 MHz	40.00	40.00
100 MHz	28.50	28.50
200 MHz	19.00	19.00
400 MHz	13.50	13.50
500 MHz	12.50	12.50
1,000 MHz	8.30	8.30
2,000 MHz	5.10	5.10
3,000 MHz	4.40	4.40
4,000 MHz	3.50	3.50
5,000 MHz	3.20	3.20
6,000 MHz	3.00	3.00

* Sea level 40°C, matched load

Attenuation (db/100 ft typical)*

	TRU-560	TRU-500
50 MHz	0.75	0.75
100 MHz	1.05	1.05
200 MHz	1.50	1.50
400 MHz	2.13	2.13
500 MHz	2.40	2.40
1,000 MHz	3.40	3.40
2,000 MHz	5.00	5.00
3,000 MHz	6.30	6.30
4,000 MHz	7.45	7.45
5,000 MHz	8.55	8.55
6,000 MHz	9.50	9.50

* 20°C, matched load

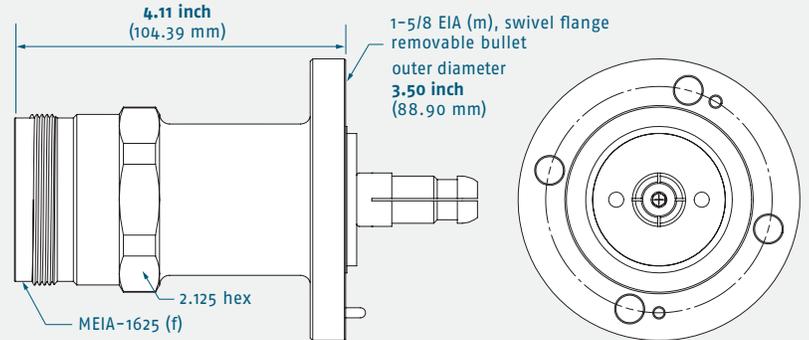


MEIA Series

Adapters

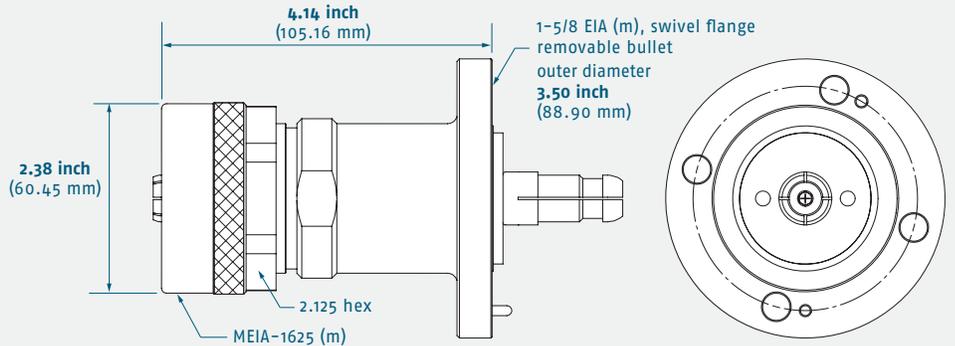
1-5/8 EIA (m) to MEIA-1625 (f) adapter

Part Number	Finish
TRU-12494	Nickel



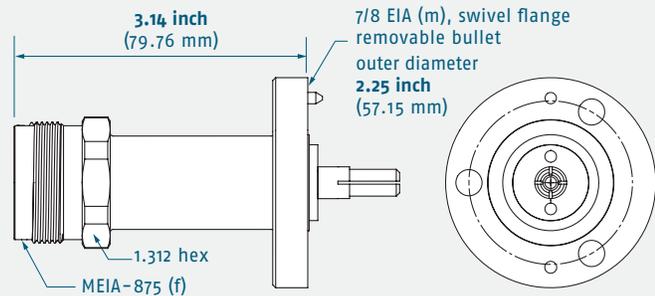
1-5/8 EIA (m) to MEIA-1625 (m) adapter

Part Number	Finish
TRU-12495	Nickel



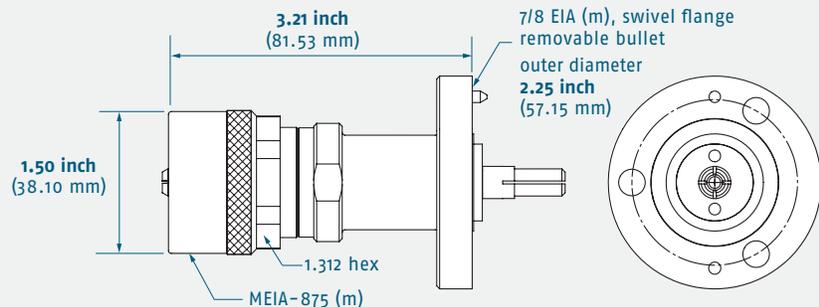
7/8 EIA (m) to MEIA-875 (f) adapter

Part Number	Finish
TRU-12532	Nickel



7/8 EIA (m) to MEIA-875 (m) adapter

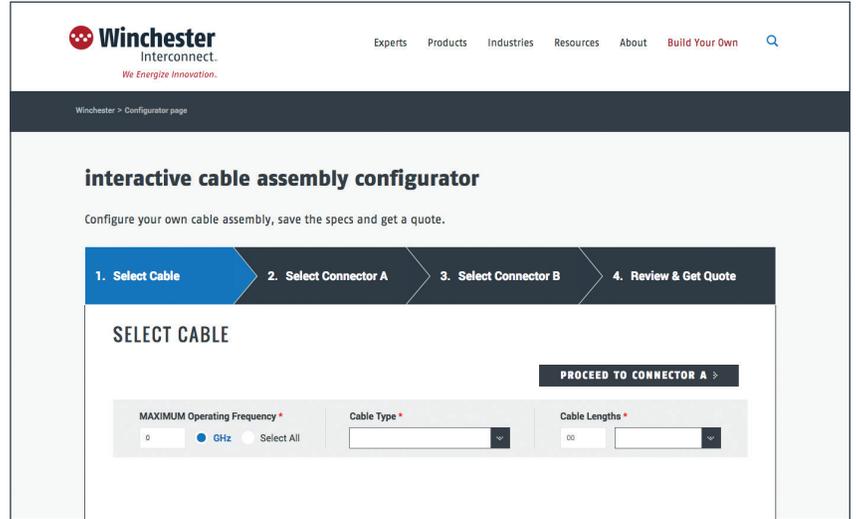
Part Number	Finish
TRU-12533	Nickel



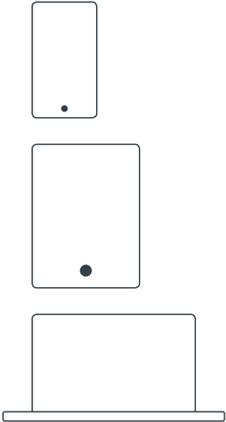
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Simple Navigation

With our online Cable Configurator you can build the right cable assembly for your specific requirements. The Cable Configurator takes you through a series of filtered fields where you choose a Cable Type, Length and Frequency, and also specify Connector Types.

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Interconnect Solutions That Fuel Customer Success

At Winchester Interconnect, we believe that design creativity and streamlined execution can solve any connectivity challenge.

We are passionate about helping to deliver the power and data your designs need when failure is not an option. We focus on designing and delivering precision-engineered interconnect solutions for your exact needs, whatever your design challenge.



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Stronger and more unified, Winchester Interconnect now offers solutions under four powerful product brands. Be assured that all of the solutions you rely on today are available from Winchester Interconnect.

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