EFC Low Loss Flexible Cable Assembly

EFC low loss flexible cable assembly is used for any high frequency signal transmission between systems or instruments where low loss and stability are critical.

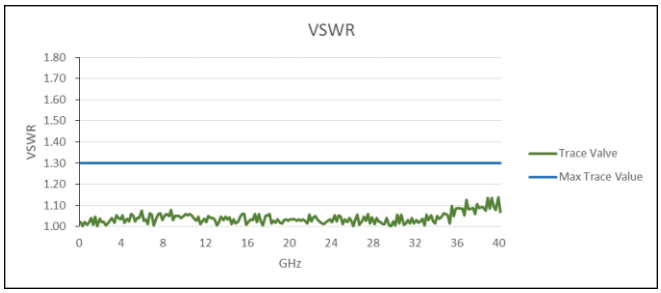
The EFC low loss flexible cable assemblies are available to a wide range of connectors offering excellent specifications. The unique small cable connectors are designed for end users who need high performance in a very small space.

The EFC low loss flexible cable assemblies are also available to phase matching and armoring upon request.

Features

- DC to 110GHz
- Excellent Performance
- Perfect Consistency
- Phase Matching Upon Request
- Armoring Upon Request
- Customizable

Connector Materials	
Body	Stainless Steel, Passivated / Au-plated Brass
Center Conductor	Au-plated Beryllium Copper
Environmental data	
Operating Temperature	-55℃~+125℃



Cable Descriptions	
Center Conductor	Ag-plated Cu
Dielectric	PTFE
Outer Conductor	Outer Conductor
Inner Braid	Ag-plated Copper Braid
Outer Jacket	PFA / FEP

AS Monolayer Armour

The AS cable is installed within a stainless steel interlocked armor in order to provide crush and pull forces resistance. It is used in production environments and outdoor applications.

RU Multilayer Armour

The RU cable is more flexible while resists crush and pull forces. It is used for precision test applications where request phase and amplitude stability.

EPT Precision VNA Test Cable Assembly

VNA test cables which with excellent mechanical amplitude and phase stability, are suitable for high reliability vector network analyzer (VNA) test application.

The VNA test cables can be up to 67GHz, they include NMD connectors which are solid and light weight can mate directly with VNA ports.

Features

- DC to 67GHz
- Excellent Performance
- Excellent Amplitude And Phase Stability
- Customizable

Connector Materials	
Body	Stainless Steel, Passivated
Center Conductor	Au-plated Beryllium Copper
Cable Descriptions	
Center Conductor	Ag-plated Copper
Dielectric	PTFE
Outer Conductor	Ag-plated Copper Tape
Inner Braid	Ag-plated Copper Braid
Outer Jacket	Multilayer armour
Minimum Bend Radius	50mm
Environmental data	
Operating Temperature	0℃~+40℃
Storage Temperature	-40℃~+75℃

NMD1.85mm Series								
P/N	Connector 1	Connector 2	Length (cm)	Frequency (GHz)	VSWR (Max.)	IL (dB)	Amplitude Stability (dB)	Phase Stability
EPT7171	NMD1.85mm Female	NMD1.85mm Male	63	DC~67	1.40:1	<5.2	<±0.05	<±4.0°
EPT7161	NMD1.85mm Female	1.85mm Female	63	DC~67	1.40:1	<5.2	<±0.05	<±4.0°
EPT7171B	NMD1.85mm Female	NMD1.85mm Female	63	DC~67	1.40:1	<5.2	<±0.05	<±3.0°
EPT7161D	NMD1.85mm Female	1.85mm Male	63	DC~67	1.40:1	<5.2	<±0.05	<±3.0°
EPT7171A	NMD1.85mm Male	NMD1.85mm Male	63	DC~67	1.40:1	<5.2	<±0.05	<±3.0°
EPT7161C	NMD1.85mm Male	1.85mm Female	63	DC~67	1.40:1	<5.2	<±0.05	<±3.0°
EPT7161A	NMD1.85mm Male	1.85mm Male	63	DC~67	1.40:1	<5.2	<±0.05	<±3.0°
NMD2.4mm Series								
P/N	Connector 1	Connector 2	Length (cm)	Frequency (GHz)	VSWR (Max.)	IL (dB)	Amplitude Stability (dB)	Phase Stability
EPT7878	NMD2.4mm Female	NMD2.4mm Male	63	DC~50	1.30:1	<3.0	<±0.05	<±3.0°
EPT7868	NMD2.4mm Female	2.4mm Female	63	DC~50	1.30:1	<3.0	<±0.05	<±3.0°
EPT7837	NMD2.4mm Female	NMD2.92mm Male	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°
EPT7867	NMD2.4mm Female	2.92mm Female	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°
EPT7878B	NMD2.4mm Female	NMD2.4mm Female	63	DC~50	1.30:1	<3.0	<±0.05	<±3.0°
EPT7868D	NMD2.4mm Female	2.4mm Male	63	DC~50	1.30:1	<3.0	<±0.05	<±3.0°
EPT7837B	NMD2.4mm Female	NMD2.92mm Female	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°
EPT7867D	NMD2.4mm Female	2.92mm Male	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°
EPT7878A	NMD2.4mm Male	NMD2.4mm Male	63	DC~50	1.30:1	<3.0	<±0.05	<±3.0°
EPT7868C	NMD2.4mm Male	2.4mm Female	63	DC~50	1.30:1	<3.0	<±0.05	<±3.0°
EPT7868A	NMD2.4mm Male	2.4mm Male	63	DC~50	1.30:1	<3.0	<±0.05	<±3.0°
EPT7837A	NMD2.4mm Male	NMD2.92mm Male	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°
EPT7867C	NMD2.4mm Male	2.92mm Female	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°
EPT7867A	NMD2.4mm Male	2.92mm Male	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°
NMD2.92mm Series								
P/N	Connector 1	Connector 2	Length (cm)	Frequency (GHz)	VSWR (Max.)	IL (dB)	Amplitude Stability (dB)	Phase Stability
EPT3778	NMD2.92mm Female	NMD2.4mm Male	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°
EPT3768	NMD2.92mm Female	2.4mm Female	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°
EPT3737	NMD2.92mm Female	NMD2.92mm Male	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°
EPT3767	NMD2.92mm Female	2.92mm Female	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°
EPT3768D	NMD2.92mm Female	2.4mm Male	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°
EPT3737B	NMD2.92mm Female	NMD2.92mm Female	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°
EPT3767D	NMD2.92mm Female	2.92mm Male	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°
EPT3768C	NMD2.92mm Male	2.4mm Female	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°

EPT3768A	NMD2.92mm Male	2.4mm Male	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°
EPT3737A	NMD2.92mm Male	NMD2.92mm Male	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°
EPT3767C	NMD2.92mm Male	2.92mm Female	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°
EPT3767A	NMD2.92mm Male	2.92mm Male	63	DC~40	1.30:1	<2.8	<±0.05	<±2.5°

NMD3.5mm Series

P/N	Connector 1	Connector 2	Length (cm)	Frequency (GHz)	VSWR (Max.)	IL (dB)	Amplitude Stability (dB)	Phase Stability
EPT7676	NMD3.5mm Female	NMD3.5mm Male	63	DC~26.5	1.25:1	<1.8	<±0.05	<±2.0°
EPT7666	NMD3.5mm Female	3.5mm Female	63	DC~26.5	1.25:1	<1.8	<±0.05	<±2.0°
EPT7676B	NMD3.5mm Female	NMD3.5mm Female	63	DC~26.5	1.25:1	<1.8	<±0.05	<±2.0°
EPT7666D	NMD3.5mm Female	3.5mm Male	63	DC~26.5	1.25:1	<1.8	<±0.05	<±2.0°
EPT7665B	NMD3.5mm Female	N Female	63	DC~18	1.20:1	<1.5	<±0.05	<±1.5°
EPT7665D	NMD3.5mm Female	N Male	63	DC~18	1.20:1	<1.5	<±0.05	<±1.5°
EPT7635B	NMD3.5mm Female	7mm Sexless	63	DC~18	1.20:1	<1.5	<±0.05	<±1.5°
EPT7666C	NMD3.5mm Male	3.5mm Female	63	DC~26.5	1.25:1	<1.8	<±0.05	<±2.0°
EPT7666A	NMD3.5mm Male	3.5mm Male	63	DC~26.5	1.25:1	<1.8	<±0.05	<±2.0°
EPT7676A	NMD3.5mm Male	NMD3.5mm Male	63	DC~26.5	1.25:1	<1.8	<±0.05	<±2.0°
EPT7665C	NMD3.5mm Male	N Female	63	DC~18	1.20:1	<1.5	<±0.05	<±1.5°
EPT7665A	NMD3.5mm Male	N Male	63	DC~18	1.20:1	<1.5	<±0.05	<±1.5°
EPT7635A	NMD3.5mm Male	7mm Sexless	63	DC~18	1.20:1	<1.5	<±0.05	<±1.5°

N-Type Series

P/N	Connector 1	Connector 2	Length (cm)	Frequency (GHz)	VSWR (Max.)	IL (dB)	Amplitude Stability (dB)	Phase Stability
EPT6565A	N Male	N Male	63	DC~18	1.20:1	<1.5	<±0.05	<±1.5°
EPT6565C	N Male	N Female	63	DC~18	1.20:1	<1.5	<±0.05	<±1.5°
EPT6566B	N Female	3.5mm Female	63	DC~18	1.20:1	<1.5	<±0.05	<±1.5°
EPT6566D	N Female	3.5mm Male	63	DC~18	1.20:1	<1.5	<±0.05	<±1.5°
EPT6565B	N Female	N Female	63	DC~18	1.20:1	<1.5	<±0.05	<±1.5°
EPT6535B	N Female	7mm Sexless	63	DC~18	1.20:1	<1.5	<±0.05	<±1.5°
EPT6566C	N Male	3.5mm Female	63	DC~18	1.20:1	<1.5	<±0.05	<±1.5°
EPT6566A	N Male	3.5mm Male	63	DC~18	1.20:1	<1.5	<±0.05	<±1.5°
EPT6535A	N Male	7mm Sexless	63	DC~18	1.20:1	<1.5	<±0.05	<±1.5°

7mm Series

P/N	Connector 1	Connector 2	Length (cm)	Frequency (GHz)	VSWR (Max.)	IL (dB)	Amplitude Stability (dB)	Phase Stability
EPT3535	7mm Sexless	7mm Sexless	63	DC~18	1.20:1	<1.5	<±0.05	<±1.5°
EPT3566B	7mm Sexless	3.5mm Female	63	DC~18	1.20:1	<1.5	<±0.05	<±1.5°
EPT3566A	7mm Sexless	3.5mm Male	63	DC~18	1.20:1	<1.5	<±0.05	<±1.5°

EET Economic VNA Test Cable Assembly

The EET economic VNA test cable has good microwave electrical performance, excellent phase and amplitude stability. The flexible and lighter structure makes the testing more efficient. They provide stable performance in laboratory and production applications.

Connector Materials	
Body	Stainless Steel, Passivated
Center Conductor	Au-plated Beryllium Copper
Cable Descriptions	
Center Conductor	Ag-plated Copper
Dielectric	PTFE
Outer Conductor	Ag-plated Copper Tape
Inner Braid	Ag-plated Copper Braid
Outer Jacket	Multilayer armour
Environmental data	
Operating Temperature	0℃~+40℃
Storage Temperature	-40℃~+75℃

NMD2.4mm Series								
P/N	Connector 1	Connector 2	Length (cm)	Frequency (GHz)	VSWR (Max.)	IL (dB)	Amplitude Stability (dB)	Phase Stability
EET7868B	NMD2.4mm Female	2.4mm Female	63	DC~50	1.35:1	<2.65	<±0.1	<±5.5°
EET7868D	NMD2.4mm Female	2.4mm Male	63	DC~50	1.35:1	<2.65	<±0.1	<±5.5°
EET7868B-G7	NMD2.4mm Female	2.4mm Female	63	DC~40	1.30:1	<1.98	<±0.1	<±4.5°
EET7868D-G7	NMD2.4mm Female	2.4mm Male	63	DC~40	1.30:1	<1.98	<±0.1	<±4.5°
EET7867B	NMD2.4mm Female	2.92mm Female	63	DC~40	1.30:1	<1.98	<±0.1	<±4.5°
EET7867D	NMD2.4mm Female	2.92mm Male	63	DC~40	1.30:1	<1.98	<±0.1	<±4.5°
NMD2.92mm Series								
P/N	Connector 1	Connector 2	Length (cm)	Frequency (GHz)	VSWR (Max.)	IL (dB)	Amplitude Stability (dB)	Phase Stability
EET3768B	NDM2.92mm Female	2.4mm Female	63	DC~40	1.30:1	<1.98	<±0.1	<±4.5°
EET3768D	NDM2.92mm Female	2.4mm Male	63	DC~40	1.30:1	<1.98	<±0.1	<±4.5°
EET3767B	NDM2.92mm Female	2.92mm Female	63	DC~40	1.30:1	<1.98	<±0.1	<±4.5°
EET3767D	NDM2.92mm Female	2.92mm Male	63	DC~40	1.30:1	<1.98	<±0.1	<±4.5°

NMD3.5mm Series								
P/N	Connector 1	Connector 2	Length (cm)	Frequency (GHz)	VSWR (Max.)	IL (dB)	Amplitude Stability (dB)	Phase Stability
EET7666B	NMD3.5mm Female	3.5mm Female	63	DC~26.5	1.25:1	<1.1	<±0.1	<±4°
EET7666D	NMD3.5mm Female	3.5mm Male	63	DC~26.5	1.25:1	<1.1	<±0.1	<±4°
EET7665B	NMD3.5mm Female	N Female	63	DC~18	1.20:1	<0.9	<±0.1	<±3.5°
EET7665D	NMD3.5mm Female	N Male	63	DC~18	1.20:1	<0.9	<±0.1	<±3.5°
EET7635B	NMD3.5mm Female	7mm Sexless	63	DC~18	1.20:1	<0.9	<±0.1	<±3.5°

● ESF Semi-flexible Cable Assembly

ESR semi-rigid cable assembly can be bent to the high level of precision. The ESR cable assemblies are used for high reliable microwave interconnection between internal modules. The ESR cable assemblies support frequency up to 60GHz. The VSWR is <1.25 when at 40GHz. Phase matching is available upon request.

Cable Construction	
Center Conductor	Ag-plated Cu
Dielectric	PTFE
Outer Conductor	Sn-plated Copper/ Albaloy-plated Copper