

Connector Selection Guide

We specialize in custom, high-performance connectors that cannot be obtained from conventional sources. Please contact us to discuss your unique and demanding connector requirements.

Design and materials of all connectors and connector parts conform to MIL-PRF-39012. The UTiFLEX® connectors have been optimized to achieve the lowest possible SWR across the bandwidth. In addition, the unique connector attachment has been designed to provide high reliability and withstand heavy stress. The connector body, dielectric, and center contact are completely captivated, guaranteeing the cable assembly will keep its excellent properties even after hard use.

Description	Part Number	Cable Group*	Rated Frequency	Maximum SWR (per connector)
2.4 mm Plug	100	04, 05	40 / 50 GHz	1.16:1 – 18 GHz 1.22:1 – 40/50 GHz
2.4 mm Jack	110	04, 05	40 / 50 GHz	1.16:1 – 18 GHz 1.22:1 – 40/50 GHz
SMK Plug	200 (20V Space)	05, 09	32/40 GHz	1.16:1 – 18 GHz 1.20:1 – 40 GHz
SMK Right-Angle Plug	280 (2QV Space)	05, 09	32/40 GHz	1.16:1 – 18 GHz 1.20:1 – 40 GHz
SMK Jack	210	05	40 GHz	1.16:1 – 18 GHz 1.20:1 – 40 GHz
Precision 3.5 mm Plug	000	05, 07	26.5 GHz	1.16:1 – 18 GHz 1.20:1 – 26.5 GHz
Precision 3.5 mm Jack	010	05, 07	26.5 GHz	1.16:1 – 18 GHz
SMA Plug	300 (30V Space)	01, 02, 05, 06, 07, 08, 09	18 GHz	1.16:1 – 18 GHz
SMA Jack	310 (31V Space)	01, 02, 05, 06, 07, 08	18 GHz	1.16:1 – 18 GHz
SMA Right Angle Plug	380 (3QV Space)	02, 05, 06, 07, 08	18 GHz	1.20:1 – 18 GHz
SMA Bulkhead Jack	320 (32V Space)	02, 05, 06, 07	18 GHz	1.16:1 – 18 GHz
Precision 7 mm	460	05, 06, 07, 08	18 GHz	1.16:1 – 18 GHz
Precision N Plug 50U	50U	05, 06, 07, 08	18 GHz	1.16:1 – 18 GHz
Precision N Jack	510	05, 06, 07, 08	18 GHz	1.16:1 – 18 GHz
Precision TNC Plug	60u (A0V Space)	05, 06, 07, 08	18 GHz	1.20:1 – 18 GHz
Precision TNC Jack	610 (A1R Space)	05, 06, 07, 08	18 GHz	1.20:1 – 18 GHz
N Plug 70U	70U	07, 08	12.4 GHz	1.16:1 – 12.4 GHz
N Jack	710	07, 08	12.4 GHz	1.16:1 – 12.4 GHz
BNC Plug	804	07	4 GHz	1.20:1 – 4 GHz
SMP Jack	F10	01, 02, 04	18 GHz	1.16:1 – 18 GHz
SMP Right Angle Jack	F80	01, 02, 04	18 GHz	1.20:1 – 18 GHz

*Cable Groups	Number
UGF070D	01
UFF092D, UFF092F, MCJ088D, UFB088D, UFC092D	02
UFA125A	04
UFA147A, UFB142A, MCJ142A	05
UFA147B, UFB142C	06
UFA210A, UFA210B, UFB205A, UFB197C, MCJ205A	07
UFB311A, UFB293C, MCJ311A	08
MCJ185A, UFC185A	09

Most connector types are also available in a right-angle elbow configuration. Additional connector types (not listed) are available upon request. Please contact us for outline drawings or any special requirements.

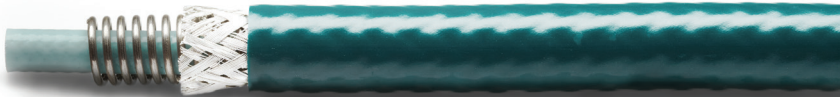
Armor Selection Guide

Most UTiFLEX® Cable Assemblies are available with armor. The armor extends the assembly life and adds additional physical protection. Two standard armors are detailed below. Additional armor types are available. Please contact us with any special requirements.

-1 POLYURETHANE JACKET OVERBRAID/STAINLESS STEEL SPIRAL			
Cable Groups (see page 8)	04, 05, 06	07	08
Diameter in (mm)	0.35 (8.89)	0.41 (10.41)	0.53 (13.46)
Min. Bend Radius in (mm)	0.5 (12.70)	1.0 (25.40)	1.5 (38.10)
Max. Temperature	80 °C	80 °C	80 °C
Crush Resistance lbs/in (N/mm)	450 (79.4)	450 (79.4)	450 (79.4)

- Features
- » Very flexible
 - » Waterproof & UV-resistant
 - » Good abrasion & cut-through resistance
 - » Torque resistant & adds pull strength

- Typical Application
- » Test lab or antenna range



-2 STAINLESS STEEL INTERLOCKED HOSE			
Cable Groups (see page 8)	04, 05, 06	07	08
Diameter in (mm)	0.28 (7.11)	0.38 (9.65)	0.49 (12.45)
Min. Bend Radius in (mm)	1.5 (38.10)	2.0 (50.80)	2.0 (50.80)
Max. Temperature	165 °C	165 °C	165 °C
Crush Resistance lbs/in (N/mm)	420 (74.1)	420 (74.1)	420 (74.1)

- Features
- » Suitable for higher temperature environments
 - » Prevents over-bending
 - » Excellent abrasion & cut-through resistance
 - » Cost-effective

- Typical Application
- » Military hardware

