

KARL GÄRTNER GMBH

NETWORKING COMPONENTS

COAXIAL CONNECTORS

CABLE ASSEMBLIES

PRECISION TURNED PARTS

PLASTIC INJECTION MOULD PARTS

INDUSTRIAL ELECTRONICS





Coax
UMTC
RF Cable Assemblies

UMTC (Ultra Miniature Telecommunications Connector) **Cable Assemblies**

Telegartner now also offers special cable assemblies featuring miniaturised UMTC-series coaxial connectors. These connectors are compatible with the U.FL, MHF (I-PEX) connector series, as well as with other comparable connector types. The range includes cable assemblies terminated at both ends with a UMTC angle jack, or alternatively with one of the ends terminated with connector from the SMA-,R-SMA-,TNC-, and R-TNC series.

The coaxial cable used has an overall diameter of 1.13 mm, and 50 Ω impedance. The assemblies are suitable for frequencies up to 6 GHz.

UMTC cable assemblies are used to connect to PCBs, where space for such connections is of a premium (e.g. in equipment GSM-, GPS-, or W-LAN modules).

Application Examples

- W-LAN modules
- GSM modules
- GPS
- Bluetooth
- RF Measurement Equipment
- Antenna Pigtails

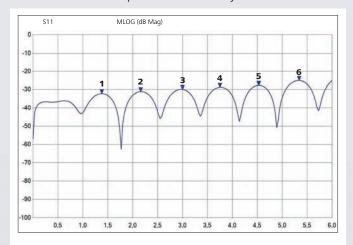
Advantages

Extremely small size



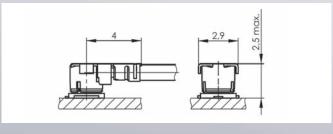
Return Loss Graph

Measurement for complete cable assembly



marker	stimulus	limit	value	margin	mem
1	1.380 GHz		-32.270 dB		
2	2.160 GHz		-31.154 dB		
3	3.000 GHz		-30.005 dB		
4	3.750 GHz		-28.822 dB		
5	4.530 GHz		-27.745 dB		
6	5.340 GHz		-25.038 dB		

Low mating height 2.5 mm above PCB

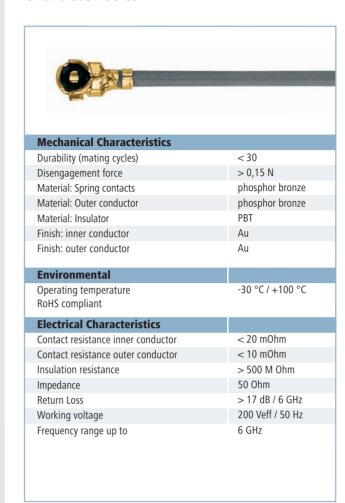


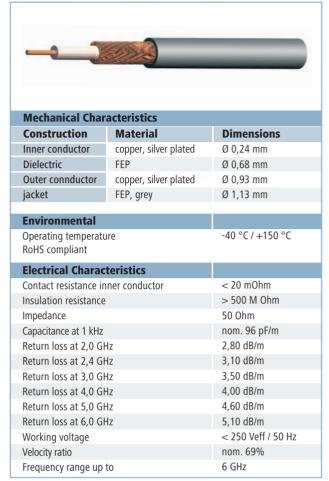




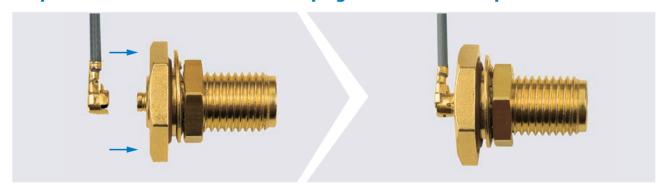
UMTC Connector Characteristics

Cable Characteristics





Simple connection of the UMTC cable plug to a bulkhead adaptor



You get your personal UMTC cable here:



Connectors for UMTC Cable Assemblies



*others on request

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Your distributor: