

Related Accessories

Crimp Tools & Cable Strippers

For attaching or replacing your own cable connectors, a ratchet crimp tool is offered. The standard crimp tool accepts various hex dies. A quick spinning cable stripper is an almost effortless way to properly prepare cable for crimping a connector. They are designed to prep cable more precisely than using a hand strip tool.

Cable/Connector Sealing

If you are using a product outdoors, it is always a good idea to use one of the mastic kits designed to seal up connector and cable junctions. Even if the connector is used in a seemingly protected environment, condensation can cause moisture to buildup in connectors. Over time, that moisture can move into cable and reduce the performance significantly.

Connector adapters

RF Connector Adapters

Sometimes a quick change is needed for an existing antenna or cable to interface with a different connector. RF adapters provide a quick way of changing the connecting style to exactly what is needed.

Connector Adapters

- SMA Plug Adapter to TNC Jack
- Rev Polarity TNC Plug to TNC Jack
- TNC Jack to N Plug Adapter
- SMA Jack to N Plug Adapter
- SMA Jack to Rev. Pol. SMA Plug

Features/Benefits

Mobile Mark, Inc. designs and manufactures custom cable assemblies and quality products, such as site, mobile, device, embedded and covert antennas for 137 MHz – 6 GHz. Applications include GPS Fleet Management, Cellular 3G, 4G LTE, WiFi, RFID, DSRC, IOT and M2M. Engineering and custom design services are available. Standard production lead times are typically 2 weeks. Longer lead times may apply to some. Mobile Mark's global headquarters, which include a manufacturing plant and research facilities, are located near Chicago, IL. An additional manufacturing and sales facility is located near Birmingham, UK.

For further information on cable assemblies, check out our website www.mobilemark.com

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antenna solutions



**CABLE
ASSEMBLIES &
CONNECTORS**

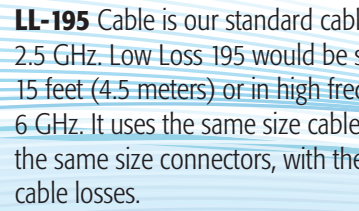
Cable Assemblies & Connectors:

- Custom RF cable assemblies built to order.
- All cable assemblies and connectors are 50 ohm.
- State-of-the-art stripping and crimping machines.
- Extensive quality checks.
- Connect site antennas into infrastructure radios.
- Extend mobile antenna cables for larger vehicle installations.

Cables covered:



RG-174 is a very small (approx. 0.1"/2.5 mm) flexible cable best suited for mobile/portable applications up to 1900 MHz. It can be used in short runs up to 2.7 GHz. For miniature sized connectors it has the widest options available.



LL-195 Cable is our standard cable for applications above 2.5 GHz. Low Loss 195 would be suitable for cable runs over 15 feet (4.5 meters) or in high frequency applications up to 6 GHz. It uses the same size cable as the RG-58, and uses the same size connectors, with the added feature of lower cable losses.



LMR-400 is suitable for long runs & higher frequency applications. Approximately 0.405" diameter (10 mm), it might be too large for some mobile installs, but is perfect for every base station transmitter or access point. Longer lead times may apply.

Model Configurator

CA / -

Cable Length in Inches

Cable Type

End Connector 1

End Connector 2

Example: CA120/195-CC

Cable loss is a factor to be considered. The loss introduced by the cable varies with frequency, as shown below.

Cable Type	Los per Ft. @ 900 MHz	Loss per Ft. @ 2000 Mhz	Loss per Ft. @ 2500 MHz	Loss per Ft. @5000 Mhz
RG-174	0.32 dB	0.49 dB	0.55 dB	NR
LMR-100A	0.22 dB	0.30 dB	0.39 dB	0.50 dB
RG-58	0.14 dB	0.21 dB	0.24 dB	0.43 dB
LL-195	0.10 dB	0.15 dB	0.17 dB	0.25 dB
LMR-195 FR	0.10 dB	0.15 dB	0.17 dB	0.25 dB
LMR-240	0.07 dB	0.10 dB	0.12 dB	0.17 dB
LMR-400	0.04 dB	0.06 dB	0.07 dB	0.12 dB
LMR-600	<.01 dB	<.01 dB	<.01 dB	0.10 dB



Other Cables to consider:

LMR-100A is the low loss alternative for RG-174. It has the same size diameter (0.1 inch or 2.5 mm) and can be used with the same range of connectors. The cable is well shielded but is still flexible and easy to handle.

RG-58 is the work horse cable and is suitable for applications up to 2.7 GHz. It is best suited for cable runs under approximately 20ft (6 meters).

LMR-195FR is a non-halogen (non-toxic), low smoke, fire retardant cable. It has the same diameter as LL-195, can be fitted with the same variety of connectors, and has the same cable loss. It meets NFPA 90A standards.

LMR-240 is a lower loss cable than RF-195 and best suited for longer cable runs from 20 ft - 50 ft (6 meters - 15 meters) as well as for higher frequency applications up to 6 GHz or more.

LMR-600 is the lowest loss cable we offer. It is a premium low loss cable. It is suitable for base station installations where the antenna may be mounted on a tower with long runs of cable.

LMR-400UF ultraflex low loss cable is ideal for applications that require additional flexibility. It is used for both indoor and outdoor applications.

Special Requests: Protective sleeve with form retaining properties can be added to prevent damages during installation. In addition, PIM Rated cables are available for in building installations.

Connectors:

Mobile Mark supplies different types of connectors to go with the cables installed on the antenna. The common connector types used are:



More connector options:

- BNC Plug
 - SMC Plug
 - MCX Plug
 - MMCX Plug
- RCA Plug
 - SSMB Plug
 - QMA
 - SMA Jack
- FME Plug
 - Mini UHF Plug
 - FAKRA Plug
 - FAKRA Right Angle

See our website for complete list of connectors and cable configurator codes.