

# connect in a flash

## General

- Same dimensions and performances as LMR® cable
- Wide Range including:
  - 6 different cable types
  - Standard and Quick-lock style connectors
- Manufactured in North America

## Applications

- Telecommunications
- Aerospace
- Test & Measurement
- Defense
- Wireless Applications

## AEP Cable Assemblies

High performance, low-loss cable assemblies are frequently used in a variety of industry applications. These can include telecommunications, aerospace, test and measurement, defense, and other wireless applications. These industries are increasingly interested in non-halogen, low-smoke, fire retardant designs at frequencies up to 6 GHz. Radiall's new AEP cable assemblies are specifically designed to address these requirements.

Performances of the Radiall AEP cables assemblies, both Mechanical and Electrical, can be compared to LMR®-FR cables. They are available in 6 different cable sizes, covering a broad range of potential uses. The broad range of connector styles available to support these LMR®-type cables include Type-N, SMA, TNC, 7/16, as well as our Quick-lock family (QLF) of both QMA and QN, which are designed to help simplify and reduce installation time while being waterproof to IP68 levels. All connectors are also fully compatible with LMR® cables.

Radiall AEP cable assemblies are manufactured in North America with a process that is designed to reduce leadtime to be able to deliver the product more quickly. Cable assembly lengths may be customized, and separate connectors may also be purchased for customer assembly.

Connect with Radiall in a flash with the new AEP cable assembly range from Radiall. These cable assemblies are equivalent to LMR®-FR type cable in both mechanical and electrical performances, and the extensive range of connectors available include the quick-lock interfaces designed for fast and efficient installation. The cable assemblies are manufactured in North America, allowing for shorter lead times with the highest quality product.

## Performance Data

CABLE	AEP-100FR	AEP-195FR	AEP-200FR	AEP-240FR	AEP-400FR	AEP-600FR
MAX FREQUENCY	6 GHz	6 GHz	6 GHz	6 GHz	6 GHz	6 GHz
VELOCITY OF PROPAGATION	66%	76%	83%	84%	85%	87%
PEAK POWER (kW)	0.6	2.5	2.5	5.6	16	40
MINIMUM STATIC BEND RADIUS	6.4mm 0.25"	12.7mm 0.5"	12.7mm 0.5"	19.1mm 0.75"	25.4mm 1.0"	38.1mm 1.5"
OPERATING TEMPERATURE	-40 / +85°C	-40 / +85°C	-40 / +85°C	-40 / +85°C	-40 / +85°C	-40 / +85°C
ATTENUATION @ 2GHz dB/100m (dB/100')	115 35.2	55.4 16.9	49.3 15.0	37.7 11.5	19.6 6.0	12.8 3.9

## Part Number Matrix

CABLE	AEP-100FR	AEP-195FR	AEP-200FR	AEP-240FR	AEP-400FR	AEP-600FR
CABLE STYLE	2.6/50 S	5/50 S	5/50 S	6.1/50 S	10.3/50 S	15/50 S
CABLE PART NUM.	C291 327 060	C291 327 010	C291 327 020	C291 327 030	C291 327 040	C291 327 050

CONNECTOR	CNCTR STYLE	CNCTR PART NUM.				
QMA	STRAIGHT PLUG	R123 071 000	R123 075 200	R123 096 110	R123 076 310	
	R/A PLUG				R123 177 100	
	STRAIGHT BH JACK				R123 314 010	
	WP STRAIGHT PLUG				R123W 076 310	
	WP R/A PLUG				R123W 177 110	
SMA-COM	STRAIGHT PLUG	R124 071 123	R124 075 210	R124 076 450	R124 076 430	R124 080 030
	R/A PLUG	R124 172 123	R124 175 110	R124 175 200	R124 175 310	
	STRAIGHT BH JACK	R124 312 123			R124 314 223	
TNC	STRAIGHT PLUG	R143 075 000	R143 082 027	R143 082 200	R143 084 161	R143 089 117
	STRAIGHT PLUG	R161 072 000	R161 082 120	R161 082 200	R161 075 030	R161 088 180
	R/A PLUG			R161 182 080	R161 183 310	R161 184 080
QN	STRAIGHT BH JACK			R161 329 130	R161 329 140	R161 331 060
	STRAIGHT PLUG				R164 075 010	R164 080 020
	R/A PLUG					R164 185 007
7/16	STRAIGHT BH JACK					R164 241 020
	STRAIGHT PLUG			R185 082 027	R185 083 310	R185 085 007
	STRAIGHT BH JACK				R185 314 100	R185 320 020



QMA R/A PLUG



SMA STRAIGHT PLUG



TNC STRAIGHT BH JACK



QN STRAIGHT BH JACK



7/16 STRAIGHT PLUG