



Amphenol

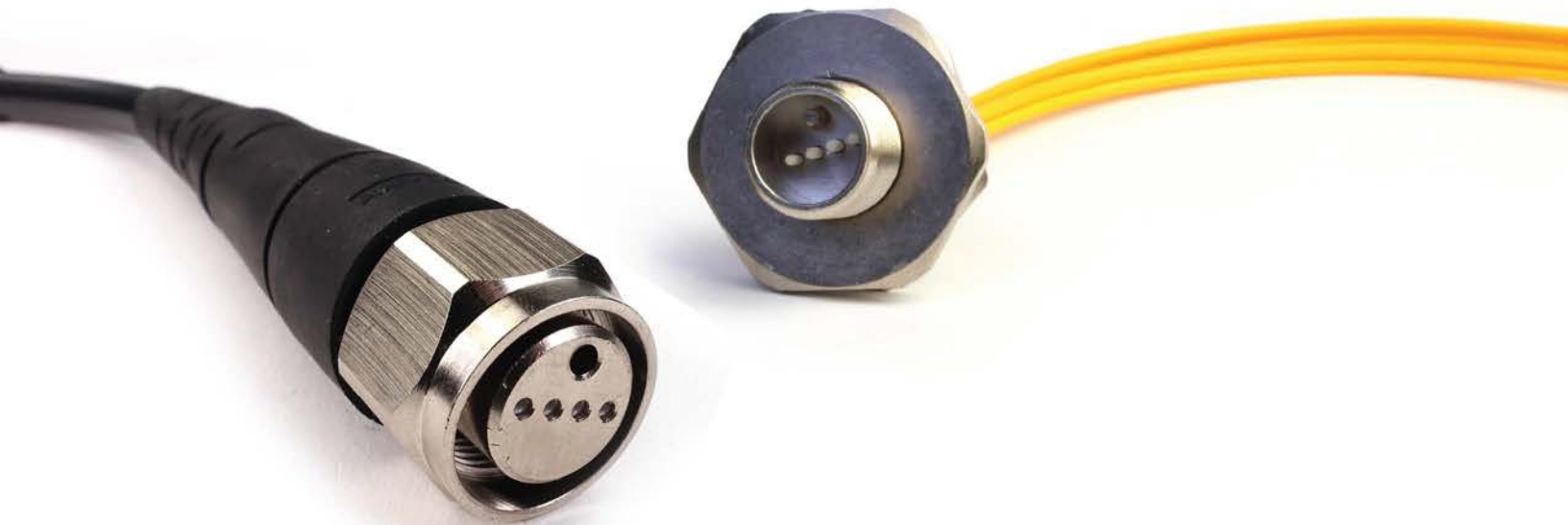
FIBER OPTIC PRODUCTS

AARC
CABLE ASSEMBLIES



Product Spotlight
April 10th, 2017





AARC Cable Assemblies

The harsh environment AARC plug and receptacle assemblies are available in 2 fiber or 4 fiber cable assembly configurations.

Based on the N Type RF threaded connector housing, this interconnect system provides superior optical performance in outdoor environments using LC style 1.25mm ceramic ferrules.

The corrosion resistant metal housings provide a durable and environmentally protected solution for optical connectivity in areas exposed to elements such as rain and snow as well as dirt and other types of contamination.

The factory terminated AARC plug assemblies are available in plug, receptacle and in-line connector styles and can be supplied as pigtails or jumpers in lengths starting from 1 meter. The factory terminated AARC receptacle assemblies are available with flange, jam-nut, or in-line configurations. Amphenol's AARC connectors are exceptionally suited for WiMax, LTE, 3G/4G wireless, and base station applications.



2 Fiber Plug



AARC Plug

In-Line Receptacle

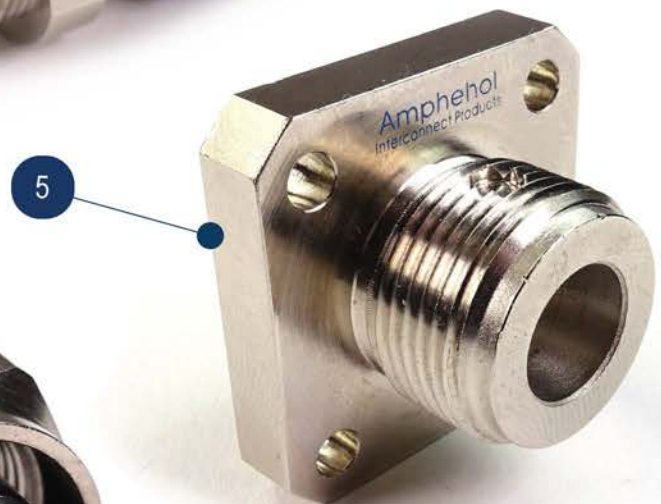
Benefits

- Blind mate and keyed
- N Type connector housing
- Easy to install
- Metal housing provides improved EMI protection
- Meets IP-67 specifications
- No installation tools required

Features

- Available with single mode or multimode fiber
- 40°C to +85°C operating temperature
- 445 N (100 lbs) cable retention
- Available in 2 or 4 fiber configuration
- Flange, Jam-Nut, or In-Line type receptacle assemblies
- Threaded mating style
- 50 minimum mating cycles
- RoHS compliant

Key Features and Options



1. IP67 Rated
2. Threaded Mating
3. Keyed
4. 2 and 4 Fiber LC-based
5. Flange Receptacle
6. In-Line Receptacle

Commitment to Quality

Amphenol

Amphenol is the world's leading interconnectivity provider. Founded in 1932, Amphenol designs, manufactures, and markets fiber optic, electrical, and coaxial interconnect products. Amphenol products are engineered and manufactured in the Americas, Europe, Asia, and Africa and offered through a worldwide sales and marketing organization.

Experience

As a manufacturer with over 80 years of interconnect design and development, Amphenol leads innovation in connector technology. Utilizing this experience, Amphenol is able to develop a cost effective end-to-end solution to satisfy a customer's full connectivity and cabling needs.

Reliability

Amphenol has a long history of total quality performance. Our high quality products, helpful customer service, and dependable product support from design through production result in satisfied customers.



AARC Fiber Trunks



Jam-Nut Receptacle

Applications

FTTH/FTTA	Small Cells
Outdoor Areas	Wireless
Harsh Environment	

Ordering Information

Part Number	Item Description
942-98140-10001	JUMPER, AARC 2F PLUG-LC(D), SM, 1M
942-98155-10001	JUMPER, AARC 4F PLUG-2X LC(D), 4F 0.5M BREAKOUT, SM, 1M
942-98156-10001	JUMPER, AARC 2F IN-LINE RECEPTACLE TO LC DUPLEX, 1M
942-98157-10001	JUMPER, 4F AARC IN-LINE RECPT TO LC(D), SM, 1M
942-98302-10001	JUMPER, AARC 2F PLUG TO PLUG, SM 4.8MM CABLE, 1M
942-98159-10001	JUMPER, 2F AARC RECPT TO LC(D), 1M ZIP
942-98161-10001	JUMPER, 4F AARC RECPT(F)-LC(D), SM 0.5M BO
942-98162-10001	JUMPER, 2F AARC RECPT(N)-LC(D), SM 0.5M BO
942-98302-10001	JUMPER, AARC 2F PLUG TO PLUG, SM 4.8MM CABLE, 1M
927-3039	AARC TORQUE TIGHTENING TOOL
927-3124	BRACKET, AARC HOLDER, 6 POSITION
927-3082	BRACKET, AARC HOLDER, 12 POSITION

Technical Specifications

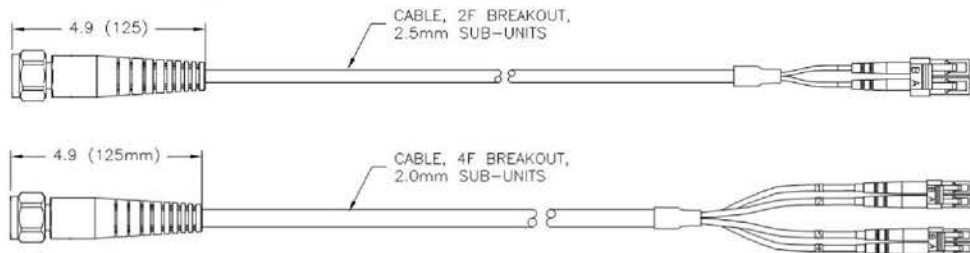
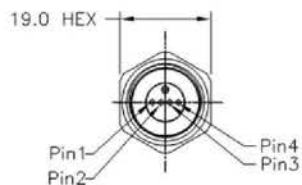
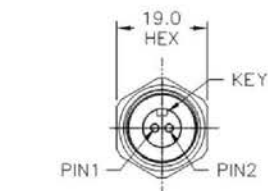
Parameter	Specification
Insertion Loss	
Singlemode	$\leq 0.35\text{dB}$ typical
Multimode	$\leq 0.35\text{dB}$ typical
Return Loss	
Singlemode	$\leq -45\text{dB}$
Max Tightening Torque	
	6N*

*4N to 5N Torque Recommended

2F Plug & Receptacle

AARC Plug Assembly

Shown Here: AARC Plug to LC Duplex Assemblies



AARC Receptacle Assembly

Shown Here: AARC Flange Mount Receptacle to LC Duplex Assemblies

