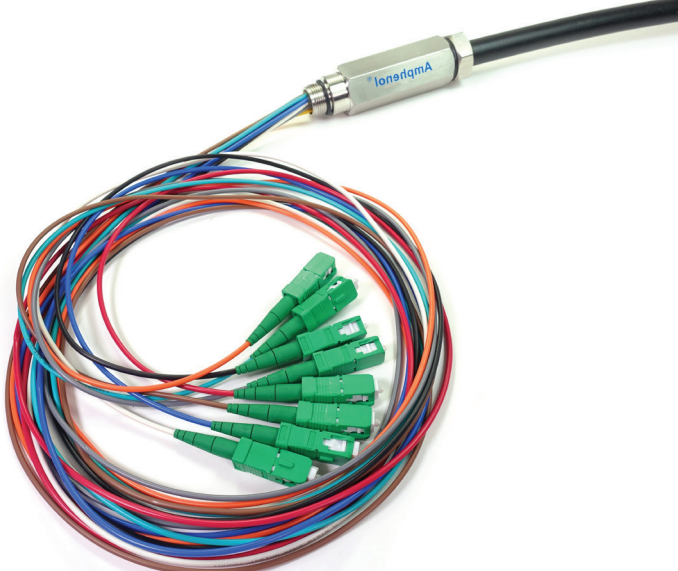


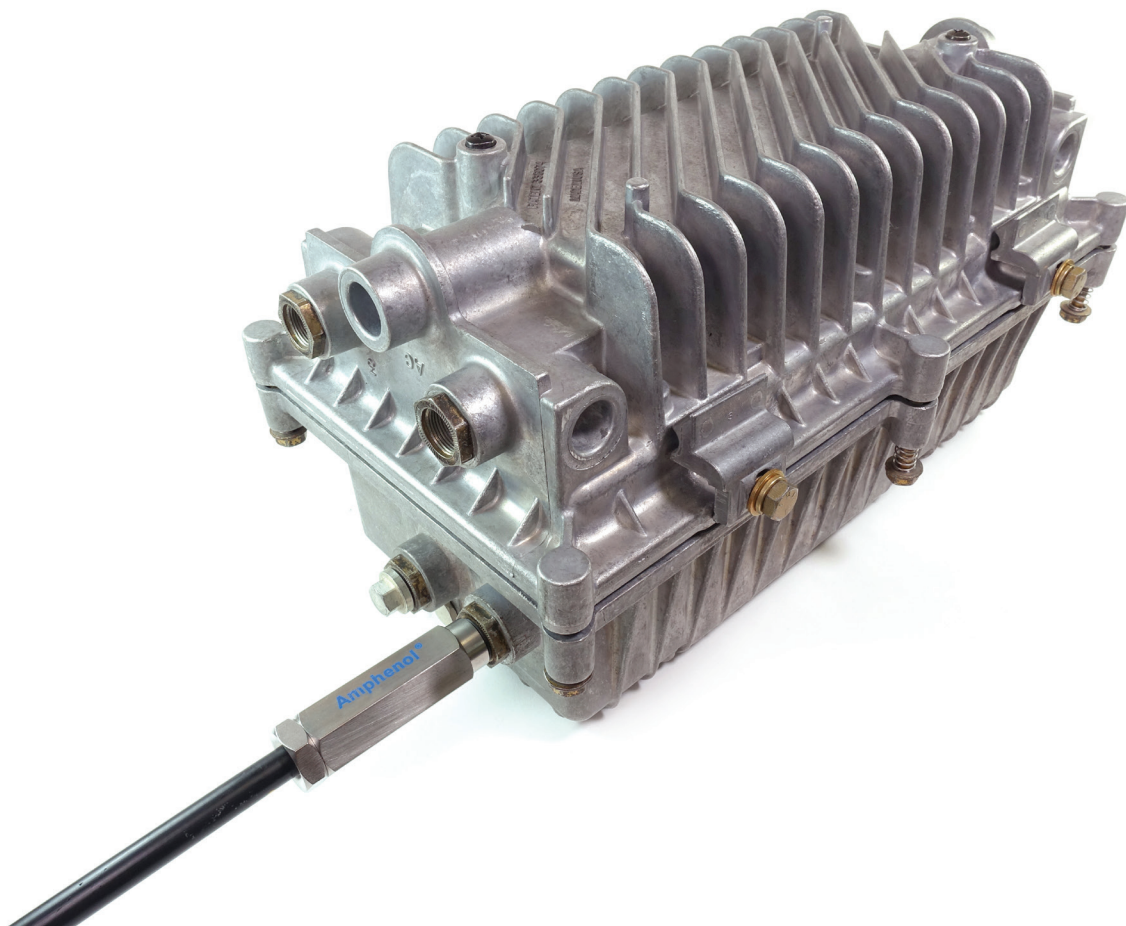
Amphenol 
Broadband Solutions®

SERVICE NODE
CABLE ASSEMBLIES





Amphenol Broadband Solutions®



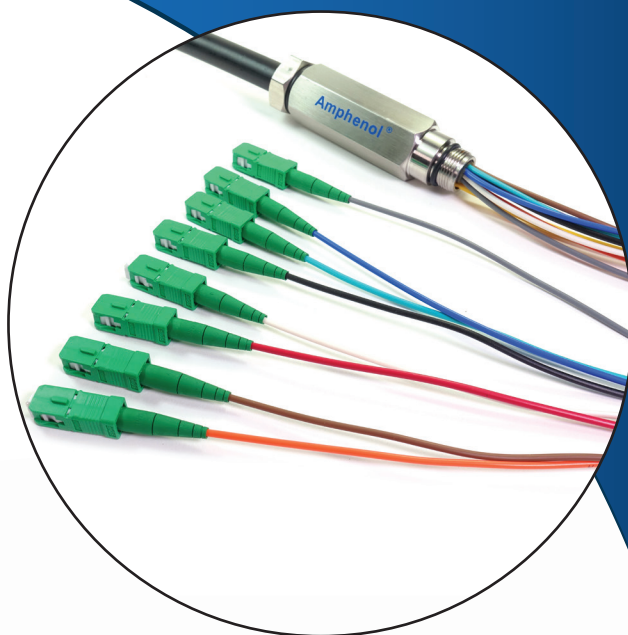
Service Node

Cable Assemblies

Amphenol's node Cable Assemblies link optical transport cable to optical processing equipment. This connection is critical and requires an environmental seal between the cable and the node feed-thru.

Amphenol's node cables utilize a unique IP68 rated stainless steel feed-thru adapter, featuring an anti-twist coupling body.

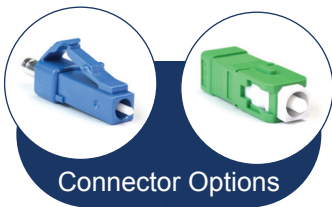
Our standard node assemblies use either a dielectric OSP cable or an armored OSP cable. Their multiple O-rings ensure a fully sealed cable and node.



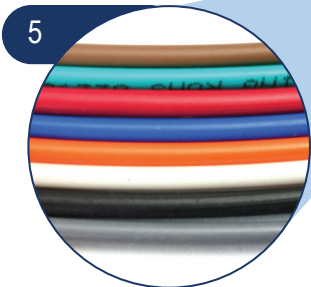
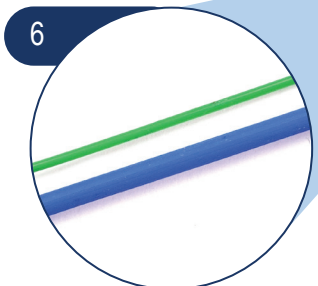
FEATURES	BENEFITS
Available with SC, LC, MTP/MPO Connectors	Multiple connector options available
Available with 900um, 1.2mm, 1.6mm, 2.0mm, or 3.0 fan-out	Multiple cable types available
Fiber counts available from 2 to 24	Multiple fiber counts available
Factory terminated for high performance	Reliable performance in field
Stainless steel fitting	Added strength and environmental durability
Potted furaction for secure environmental protection	Reliable seal
No installation tools required	Quik and easy installation
Feed-thru body features and anti-twist design	Allows tightening of node without twisting cable

INDUSTRY SPECIFICATIONS	
Weather Rating	IP68
Operating Temperature	-40°C to +70°C
Mating Cycles	100 minimum
Cable Retention	445 N (100 lbs)
Strain Relief	100 lbf
Accepted Cable Diameter	4.8mm - 7.0mm
Submersible	Up to 20 ft of water head
Threading	Standard SCTE 5/8" - 24 UNEF

Key Features and Options

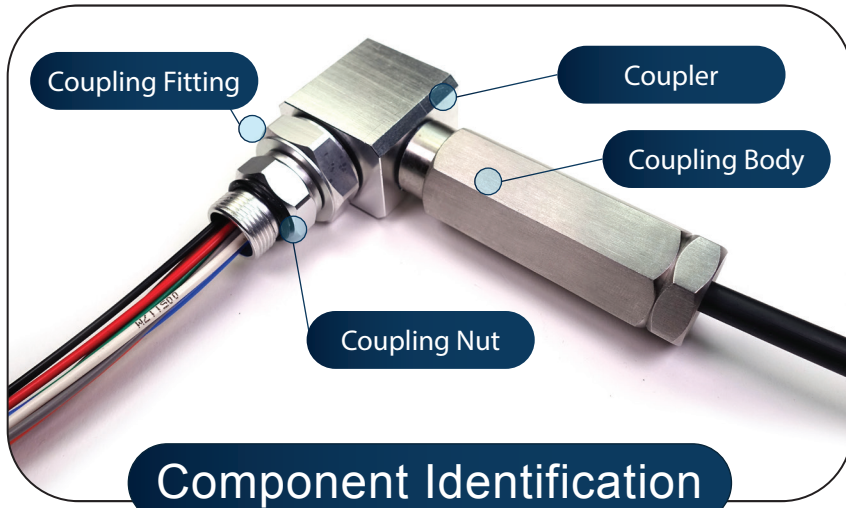


Connector Options



- 1. Optional Anti-rotating nut
- 2. Anti-twist Feed-Thru Body
- 3. IP68 Environmental Seal
- 4. PG13.5 or 5/8-24 UNEF Threading
- 5. Color Coded Fanout
- 6. Options: 900um, 1.2mm, 1.6mm, 2.0mm, and 3.0mm

90° NODE FITTING

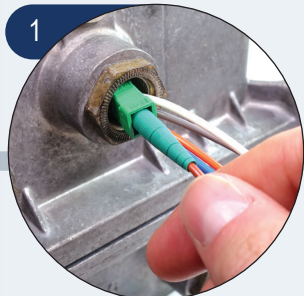


Step-By-Step Installation

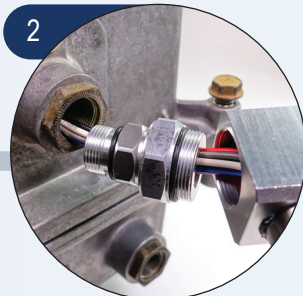
Field Installation

Tools: Standard 7/8" wrench

Warning: Do not exceed 80-100lbf-in torque



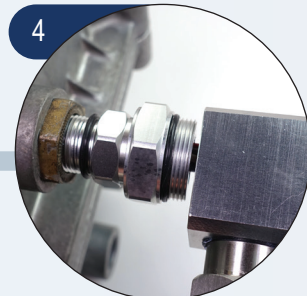
1 Feed connectors through node entry port



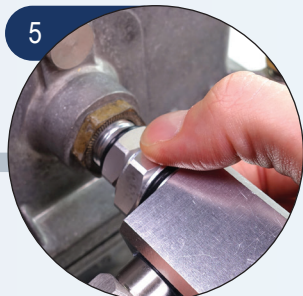
2 Feed cable into node to remove excess slack



3 Thread coupling fitting a full turn into node



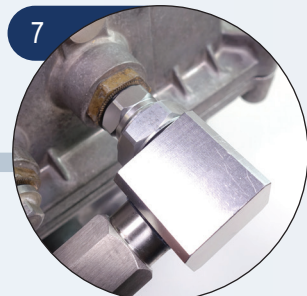
4 Align coupler to coupling fitting



5 Thread coupling fitting into node (due to left-handed threading, coupler will thread simultaneously)



6 Tighten coupling nut to secure in final position



7 Field installation complete

Industry Compliance

Connectors are mechanically and optically intermateable with industry standard connectors and adapters and conform to TIA/EIA, IEC, and Telcordia specifications (GR-326/GR-3120)

RoHS compliant



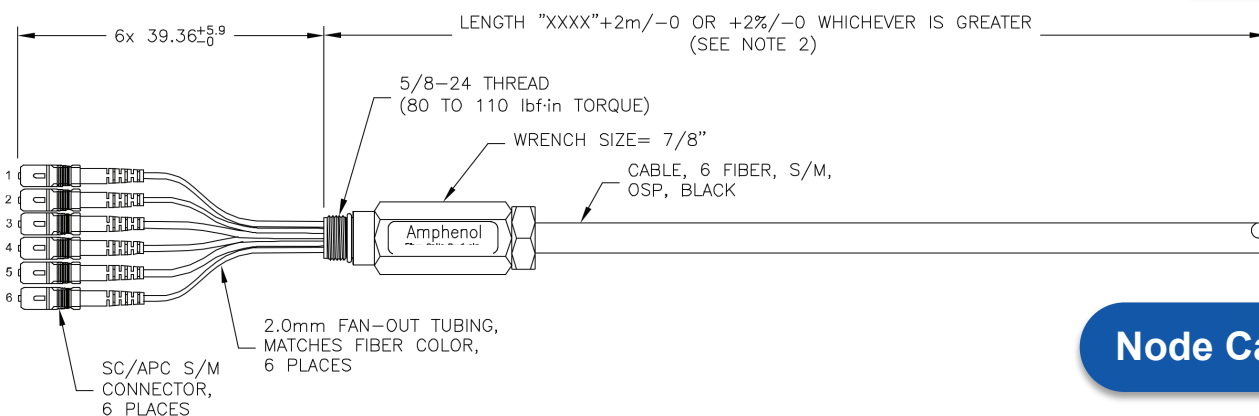
Optical Fiber OS2

Parameter	Specification
Fiber Name	Single-Mode (OS2)
Fiber Category	G.652.D / G.657.A1
Wavelengths	1310nm / 1383nm / 1500nm
Maximum Attenuation	0.4 db/km / 0.4 dB/km / 0.3 db/km

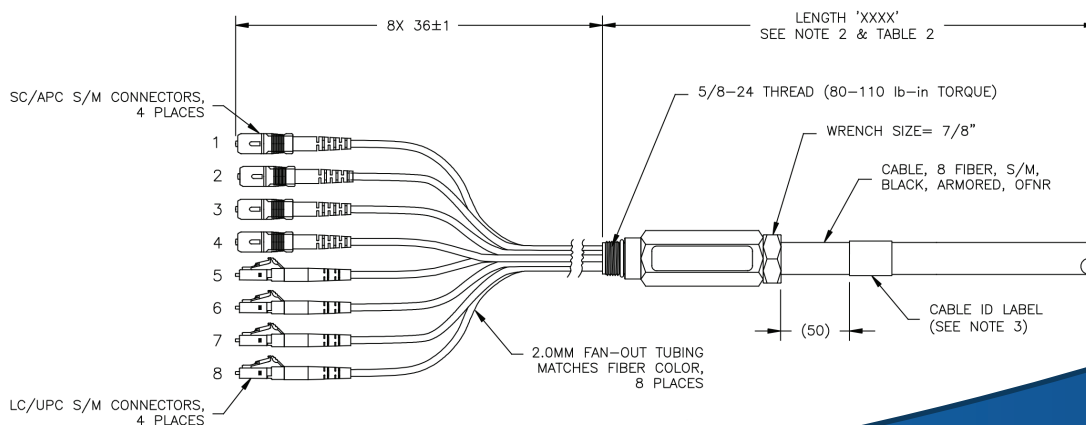
Technical Specifications

Parameter	Specification
Insertion Loss	
Singlemode Ultra Polish (UPC)	≤ 0.20dB typical
Singlemode Angle Polish (APC)	≤ 0.30dB typical
Multimode	≤ 0.35dB typical
Return Loss	
Singlemode Ultra Polish (UPC)	≤ -55dB
Singlemode Angle Polish (APC)	≤ -65dB

Node Cable w/ SC



Node Cable w/ SC+LC



Ordering Information

	ABS Part No.	Description
Straight Node Fitting	R2925-381-MT-995	12 FIBER, NODE CABLE, ARMORED (6) SC/APC + (6) LC/UPC, DRY BLOCK, 1.2mm FO, 47" BO, 1250ft (381M)
	R2925-046-MT-995	12 FIBER, NODE CABLE, ARMORED (6) SC/APC + (6) LC/UPC, DRY BLOCK, 1.2mm FO, 47" BO, 150ft (46M)
	R4588-072-MT-995	12 FIBER, PIGTAIL, DIELECTRIC, (8) LC/UPC + (4) BLUNT, 1.2mm FO, 36" BO, 250ft (72M)
	R2925-152-MT-995	12 FIBER, NODE CABLE, ARMORED (6) SC/APC + (6) LC/UPC, DRY BLOCK, 1.2mm FO, 47" BO, 500ft (152M)
	R2925-076-MT-995	12 FIBER, NODE CABLE, ARMORED (6) SC/APC + (6) LC/UPC, DRY BLOCK, 1.2mm FO, 47" BO, 250ft (76M)
	R2925-229-MT-995	12 FIBER, NODE CABLE, ARMORED (6) SC/APC + (6) LC/UPC, DRY BLOCK, 1.2mm FO, 47" BO, 750ft (229M)
	962-99061-F0150	8 FIBER, NODE CABLE, DIELECTRIC, (4) SC/APC (4) LC/UPC Gel Free, 2mm, 36" BO, 150ft
	R4112-046-MT-995	8 FIBER, PIGTAIL, ARMORED, (4) SC/APC + (4) LC/UPC, 1.2mm FO, 47" BO, 150ft (46M)
	R4112-229-MT-995	8 FIBER, PIGTAIL, ARMORED, (4) SC/APC + (4) LC/UPC, 1.2mm FO, 47" BO, 750ft (229M)
	R4112-381-MT-995	8 FIBER, PIGTAIL, ARMORED, (4) SC/APC + (4) LC/UPC, 1.2mm FO, 47" BO, 1250ft (381M)
	R3075-046-MT-995	8 FIBER, PIGTAIL, ARMORED, (4) SC/APC, (4) LC/UP, 900um FO, 47" BO, 150ft (46M)
	962-32423-01046	8 FIBER, PIGTAIL. ARMORED, SC/APC, Gel Free, 2mm, 1M BO, 46 meter
	R2527-150-995	8 FIBER, PIGTAIL, NON-ARMORED, SC/APC, ,2mm FAN OUT, 42" BO,150ft
	962-99001-10046	6 FIBER, PIGTAIL, ARMORED, SM, SC/APC, 2mm FO, 1M BO, 46M
	962-32320-01031	6 FIBER, PIGTAIL, NON-AMORED, SC/APC, 2mm Color FO, 1M BO, 31 meter
	962-99001-10031	6 FIBER, ARMORED PIGTAIL, SC/APC, 2mm Colored FO, 1M BO, BIF, 31M (100ft)
90° Node Fitting	R2855-030-MT-995	NODE90 CBL 12F (6)SCA+(6)LCU 47"/900um TO BLUNT - ARMOR 100FT
	R2855-046-MT-995	NODE90 CBL, 12F, (6) SC/APC + (6) LC/UPC, 900um FO, 47" BO, BIF, GEL FREE, ARMOR 150ft (46M)
	R2916-046-MT-995	NODE90 CBL 12F (6)SCA+(6)LCU 36"/2.0mm to BLUNT-ARMOR 150FT
	R2855-229-MT-995	NODE90 CBL, 12F, (6) SC/APC + (6) LC/UPC, 900um FO, 47" BO, BIF, GEL FREE, ARMOR 750ft (229M)
	R2855-152-MT-995	NODE90 CBL, 12F, (6) SC/APC + (6) LC/UPC, 900um FO, 47" BO, BIF, GEL FREE, ARMOR 500ft (152M)
	R2855-381-MT-995	NODE90 CBL, 12F, (6) SC/APC + (6) LC/UPC, 900um FO, 47" BO, BIF, GEL FREE, ARMOR 1250ft (381M)
	R2855-076-MT-995	NODE90 CBL, 12F, (6) SC/APC + (6) LC/UPC, 900um FO, 47" BO, BIF, GEL FREE, ARMOR 250ft (76M)
	R2855-061-MT-995	NODE90 CBL, 12F, (6) SC/APC + (6) LC/UPC, 900um FO, 47" BO, BIF, GEL FREE, ARMOR 200ft (61M)
	R2916-381-MT-995	NODE90 CBL 12F (6)SCA+(6)LCU 36"/2.0mm to BLUNT-ARMOR 1250FT
	R2916-076-MT-995	NODE90 CBL 12F (6)SCA+(6)LCU 36"/2.0mm to BLUNT-ARMOR 250FT
	R2918-030-MT-995	NODE90 CBL 08F (4)SCA+(4)LCU 36"/2.0mm to BLUNT-ARMOR 100FT
	R2918-046-MT-995	NODE90 CBL 08F (4)SCA+(4)LCU 36"/2.0mm to BLUNT-ARMOR 150FT

NOTE: Additional Configurations available. Contact your sales representative or customer service.