

NODE FIBER OPTIC SERVICE CABLE ASSEMBLIES

FSC-XX-XXX-X-XXXXF-SS-F
MULTIFIBER CABLE ASSEMBLIES

MEXFOSERV® is a complete product line of connectivity related products to support high speed telecommunications. Our designs offer the best quality and engineering solutions for every necessity and an excellent integration for network management.

MEXFOSERV® Node Fiber Optic Service Cable Assemblies, also known as node tails, drop node assemblies or amplifier drop cable assemblies, make splicing from an optical node to a closure fast, easy and reliable in a CATV network. This cable assembly features a rugged design that provides the end-user with factory pre-terminated and tested cables eliminating labor and time at the node location.

These cables offer an environmental seal between the cable and the node housing and come with a node fitting pre-installed on the cable, the mounting thread is an industry standard that helps prevent fiber breaks, leaks, kinks and avoid problems in the field for CATV networks.



APPLICATIONS

- CATV

GENERAL CHARACTERISTICS

- Available with SC, FC & LC connectors.
- Tight sealing.
- Easy installation.
- Available with 2.0mm fan out.
- Fiber counts available 8 & 12 fibers.
- Standard 5/8"-24 thread.
- Fiber color coded to TIA 598-C

STANDARDS

- GR-326-CORE
- IEC 61300-3-35
- TIA/EIA-598-C



Many of our fiber optic cable assemblies are highly configurable. If you don't see what you are looking for or have questions about our ordering matrix contained on this spec sheet, please email us info@mexfoserv.com



SPECIFICATIONS

CABLE SPECIFICATIONS		
CABLE TYPE	Loose Tube All Dielectric Slim Cable Dry	Loose Tube Single-Armored Single Jacket Slim Cable Dry
Fiber count	08, 12	
Loose tube diameter	1.9 mm (0.07")	
Strength member	Fiber-Reinforced Plastic (FRP)	
Cable weight	47 kg / km (32 lb / kft)	110 kg / km (74 lb / kft)
Jacket material	Polyethylene (PE)	
Tubing material / diameter	OFNR / 2mm	
Operating temperature	-40°C to 70°C (-40°F to 158°F)	
Crush resistance (Short-term / Long-term)	(2,200 N / 100 mm) / (1,100 N / 100 mm)	(4,400 N / 100 mm) / (2,200 N / 100 mm)
Minimum Bend Radius (Operation / Installation)	20 x OD / 10 x OD	

SINGLE-MODE CONNECTOR SPECIFICATIONS				
CONNECTOR TYPE *	UPC (ULTRA-PHYSICAL CONTACT)		APC (ANGLED PHYSICAL CONTACT)	
	SC	LC	SC	LC
Standard body color	Blue	Blue	Green	Green
2 mm boot color	Blue	Blue	Green	Green
**Max. Insertion Loss (1310nm & 1550nm)	≤ 0.20 dB		≤ 0.20 dB	
**Min. Return Loss (1310nm & 1550nm)	≥ -55dB		≥ -65 dB	
Ferrule Type	Ceramic		Ceramic	
Ferrule Diameter	2.5mm	1.25mm	2.5mm	1.25mm
Operational Temperature	-40°C to 70°C (-40°F to 158°F)			

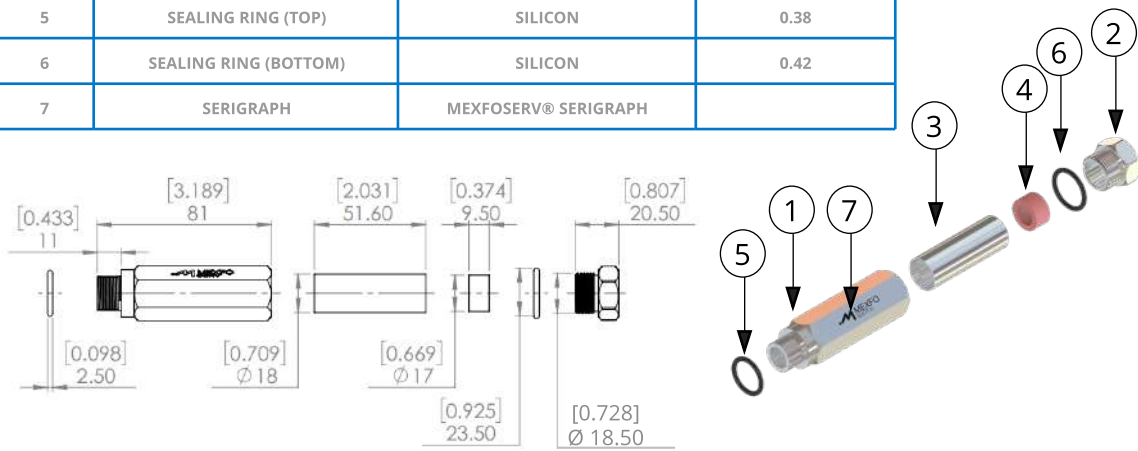
** As per the tables above, maximum insertion loss (IL) & return loss (RL) fall well below the maximum connector IL & RL allowed under GR-1221-CORE & GR-1209-CORE.



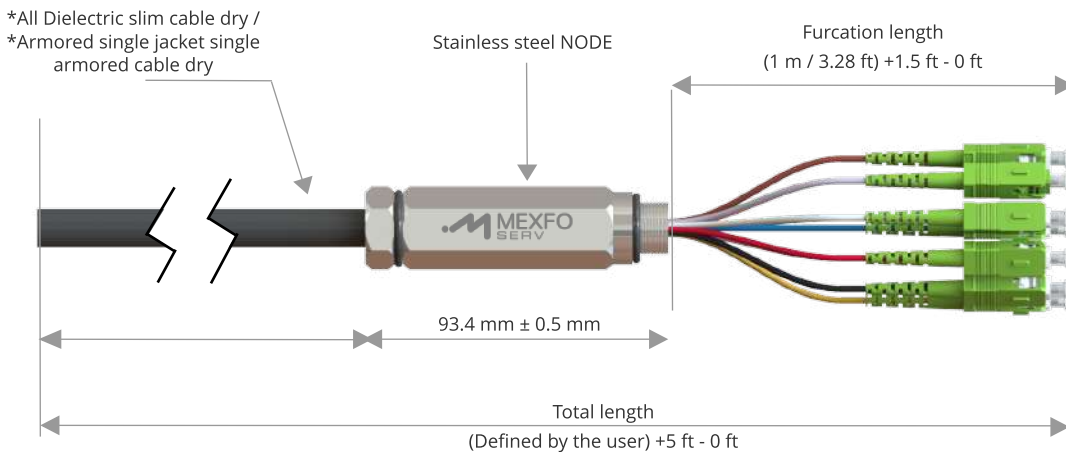
DIMENSIONS

STAINLESS STEEL NODE

SPECIFICATIONS OF THE STAINLESS STEEL NODE			
#	COMPONENT	MATERIAL	WEIGHT (gr)
1	EXTERIOR BASE	STAINLESS STEEL T304	101
2	5/8"-24 THREAD	STAINLESS STEEL T304	29.7
3	INTERIOR CYLINDER	STAINLESS STEEL T304	9.16
4	RETAINING RING	SILICON	1.62
5	SEALING RING (TOP)	SILICON	0.38
6	SEALING RING (BOTTOM)	SILICON	0.42
7	SERIGRAPH	MEXFOSERV® SERIGRAPH	



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Note: Illustrative images

Fig. 1 Node fiber optic service cable assemblies side view (8 fibers)



STANDARD PACKAGING



LABEL WITH PRODUCT INFORMATION

BOX PACKAGING SPECIFICATIONS						
Length	3 x 4" Label	Assemblies per 58.4 x 49 x 23.5 cm packing box FONCS17-M	Cable ties	Master box 60.4 x 51 x 51 cm FONCS15-M	Assemblies per master box	Master boxes per pallet
20-50 ft	3	5	4	Fits 2 packaging boxes	10	16
51-75 ft	3	4	4		8	
76-100 ft	3	3	4		6	
101-150ft	3	2	4		4	
Length	3 x 4" Label	Assemblies per 58.4 x 49 x 23.5 cm packing box FONCS17-M	Cable ties	Master box 60.4 x 51 x 51 cm FONCS15-M	Assemblies per master box	Master boxes per pallet
151-300 ft	3	1	4	Fits 2 packaging boxes	2	16
Length	3 x 4" Label	Assemblies per 50 x 19.8 x 50 cm packing box FONCS16-M	Cable ties	Master box 60.4 x 51 x 51 cm FONCS15-M	Assemblies per master box	Master boxes per pallet
301-500 ft	2	1	4	Fits 3 packaging boxes	3	16

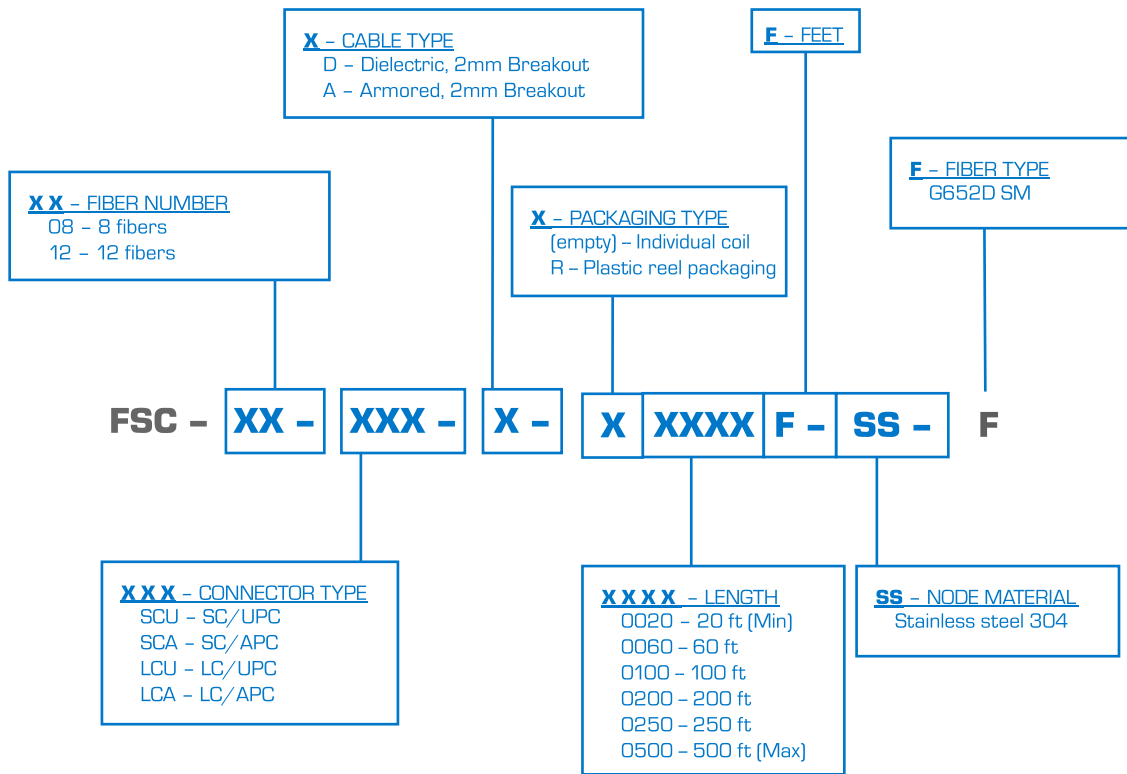
REEL PACKAGING SPECIFICATIONS				
Length	3 x 4" Label	Individual reel	Individual reel box	Boxes per pallet
300-500 ft	2	EM-1136 reel 34.02 x 30.5 x 45.75 cm	EM-1024A-M box 48.1 x 37.2 x 48.5 cm	24

**** Note:** The connectors will have an extra protection of bubble-wrap and since the NODE to the connectors it will have an anti-static poly tubing roll.



ORDERING MATRIX

NODE FIBER OPTIC SERVICE CABLE ASSEMBLIES



**** Note:** Fiber optic cable assemblies are highly configurable. Please contact your sales representative if you need help to configure your product.