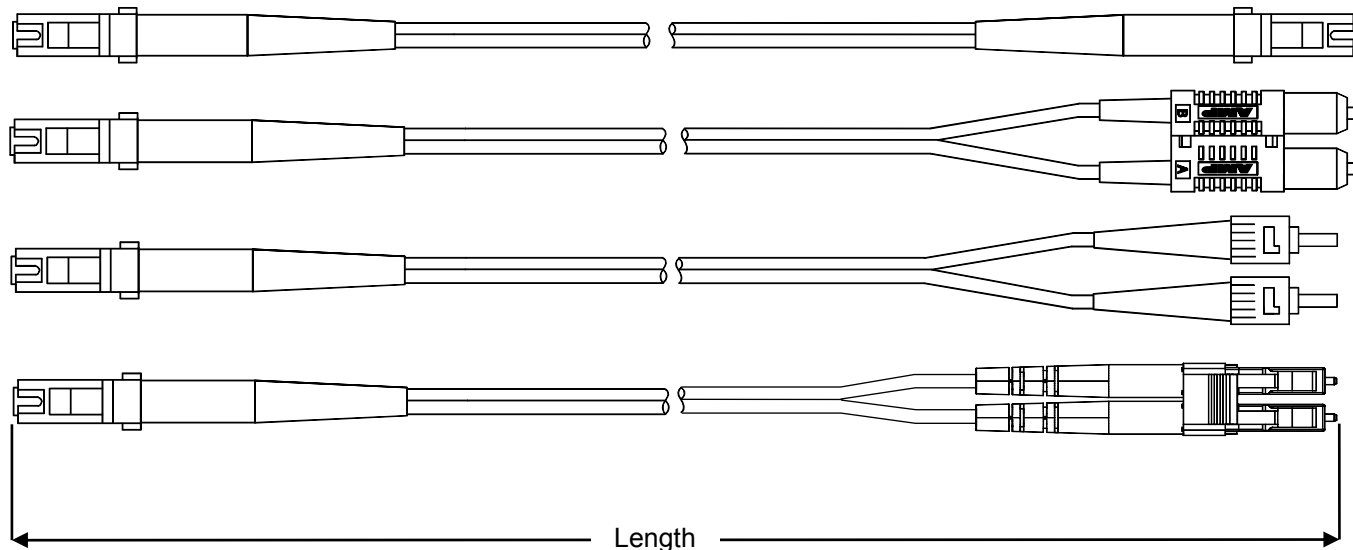


# MT-RJ System Optical Fiber Cable Assemblies



1278033-X, 1278128-X, 1588572-X, 1278032-X, 1278031-X, 1278126-X,  
1693414-Y, 1278028-X, 1278298-X, 1278199-X, 1278027-X, 1374645-X,  
1374347-X, 1588719-X, 1374646-X



## Description

AMP NETCONNECT MT-RJ Optical Fiber Cable Assemblies are built and tested individually to ensure low light loss and years of dependable performance. The AMP NETCONNECT MT-RJ System consists of MT-RJ field terminable, no-epoxy/polish, no-crimp Jacks and factory terminated MT-RJ Cable Assemblies. Each MT-RJ fiber connector houses two fibers and is less than half the size of SC duplex connector and transceiver, doubling the port density of fiber-optic LAN equipment.

AMP NETCONNECT MT-RJ Optical Fiber Cable Assemblies consist of AMP NETCONNECT connectors and individually jacketed, dual optical fiber “zipcord” cable. MT-RJ cable assemblies are available in 50/125 $\mu$ m, XG (850nm LO 50/125 $\mu$ m) and 62.5/125 $\mu$ m Multimode and Singlemode (as listed in the Part Number table below) to deliver performance beyond industry standards. AMP NETCONNECT offers a wide variety of cable assembly configurations and the MT-RJ cable assembly is available with MT-RJ, SC, ST-Style and LC connectors.

## Specification (text in brackets [ ] requires a choice)

Optical fiber cable assemblies shall be factory-terminated using duplex “zipcord” [62.5/125 $\mu$ m multimode, 50/125 $\mu$ m multimode, XG (850nm LO 50/125 $\mu$ m) multimode or singlemode] cable. Optical fiber cable assemblies shall utilize an MT-RJ plug [at both ends or on one end and an] [SC connector, ST-Style connector or LC connector on the other]. Connectors shall be compatible with TIA/EIA-604-12 (MT-RJ) [and TIA/EIA-604-X (), and TIA/EIA-604-X () or and TIA/EIA-604-X ()], in addition MT-RJ connectors shall meet the performance in the following table:

[include table from page 2]

Optical fiber patch cables shall be [1m (3.28 ft), 2m (6.56 ft), 3m (9.84 ft), 5m (16.40 ft) or 10m (32.80 ft)] in length and shall be AMP NETCONNECT part number [1278128-X, 1278032-X, 1588572-X, 1278033-X, 1278028-X, 1278126-X, 1278031-X, 1693414-X, 1278027-X, 1278199-X, 1278298-X, 1374647-X, 1588719-X, 1374646-X or 1374645-X (X denotes length, see Part Number table below)].

## Part Numbers

Description	MT-RJ to:	Part Numbers			
		Singlemode	50/125 $\mu$ m Multimode	XG (850nm LO 50/125 $\mu$ m) Multimode	62.5/125 $\mu$ m Multimode
MT-RJ System Fiber Optic Cable Assembly, Riser Rated	MT-RJ	1278033-X	1278128-X	1588572-X	1278032-X
	SC	1278031-X	1278126-X	1693414-Y	1278028-X
	ST-Style	1278298-X	1278199-X	-	1278027-X
	LC	1374645-X	1374347-X	1588719-X	1374646-X

X denotes Length in meters (feet): -1=1(3.28), -2=2(6.56), -3=3(9.84), -5=5(16.40), 1- -0=10(32.80)

Y denotes Length in meters (feet): -1=1(3.28), -2=2(6.56), -3=3(9.84)

# MT-RJ System Optical Fiber Cable Assemblies

1278033-X, 1278128-X, 1588572-X, 1278032-X, 1278031-X, 1278126-X, 1693414-Y, 1278028-X, 1278298-X, 1278199-X, 1278027-X, 1374645-X, 1374347-X, 1588719-X, 1374646-X

## Performance Details

Test Description	FOTP*	Requirement	
		MT-RJ	TIA/EIA-604-12
Visual and Mechanical Inspection	13	SC	TIA/EIA-604-3
		ST-Style	TIA/EIA-604-2
		LC	TIA/EIA-604-10
Attenuation	34	$\leq 0.75$ dB	
Return Loss	107	$\leq -20$ dB	
Low Temperature (0° C for 4 days)	188	$\leq 0.3$ dB change	
Temperature Life (55° C for 14 days)	7	$\leq 0.3$ dB change	
Humidity (90 to 95% @ 40° C for 4 days)	5	$\leq 0.3$ dB change	
Impact (8 drops from 1.8 m)	2	$\leq 0.75$ dB IL, $\leq -20$ dB RL	
Durability (500 cycles)	21	$\leq 0.75$ dB IL, $\leq -20$ dB RL	
Cable Retention (0° and 90°)	6	$\leq 0.75$ dB IL, $\leq -20$ dB RL	
Flex (100 cycles)	1	$\leq 0.75$ dB IL, $\leq -20$ dB RL	
Twist (10 cycles)	36	$\leq 0.75$ dB IL, $\leq -20$ dB RL	

\*Fiber Optic Test Procedure (FOTP)

## Technical Details

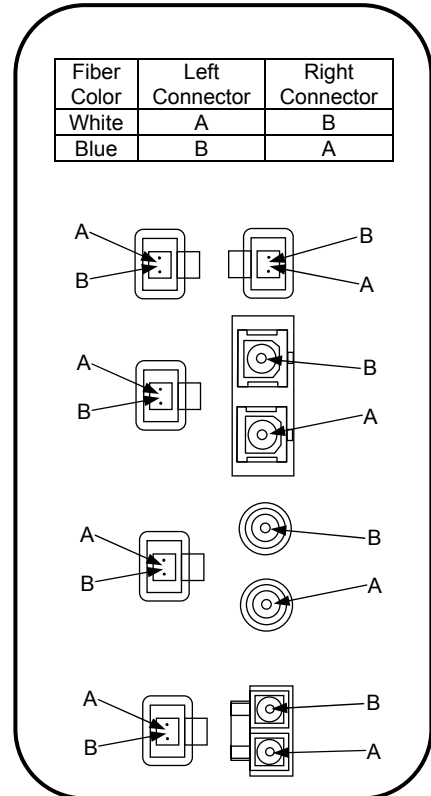
Materials		
Cable Jacket	PVC, flame rated	
Buffer	PVC, flame rated	
Optical Fiber	Silica glass with acrylate coating	
MT-RJ Plug Body	Thermoplastic	
MT-RJ Ferrule	Polyphenylene alloy	
Strain Relief Boots	Thermoplastic	
SC Connector Body	Polyester molding compound	
ST-Style Connector Body	Polyester molding compound	
LC Plug Body	Polyester molding compound	
SC, ST-Style and LC Ferrules	Ceramic	

### Approvals:

Safety –



NEC/NFPA Flame Rating - CMR



Fiber Path

Specifications subject to change without notice.

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