

## technical information

SFQ trunk cable assemblies are available in high density SFQ and LC SFQ versions. The high density SFQ trunk cabling is ideal for SAN applications delivering high reliability and scalability in a cost effective design. MPO SFQ cassettes achieve up to 96 fiber connections in one cassette, providing up to 768 fiber connections in 1 RU with superior cable access and management capabilities.

The LC SFQ Trunk Cabling is ideal for high density network applications delivering high reliability and scalability in a cost effective design. Providing quick and easy deployment, the system consists of pre-terminated LC cassettes, cable assemblies, and enclosures. The system components work together to achieve up to 96 fiber connectors in a single rack space with superior cable access and management capabilities. SFQ trunk cable assemblies are factory terminated and tested to deliver verified optical performance and reliability for improved network integrity.



## application

Complex SAN applications that require lower insertion loss and fewer failure points.

## construction

|                                  |   |                              |
|----------------------------------|---|------------------------------|
| <b>Cable type:</b>               | Indoor Trunk Cable  |                              |
| <b>Cable jacket ratings:</b>     | Optical Fiber Nonconductive Plenum (OFNP)<br>Low Smoke Zero Halogen (LSZH)  |                              |
| <b>Fiber types:</b>              | Singlemode:   | OS1/OS2 9/125um              |
|                                  | Multimode:  | OM3 50/125um<br>OM4 50/125um |
| <b>Connector types end 'A':</b>  | LC cassettes, MPO<br>female or male cassettes   |                              |
| <b>Fiber count:</b>              | 12-fiber = LC SFQ cassette<br>48-fiber = MPO SFQ cassette<br>72-fiber = MPO SFQ cassette<br>96-fiber = MPO SFQ cassette |                              |
| <b>Jacket color:</b>             | OS1/OS2   | Yellow                       |
|                                  | OM3   | Aqua                         |
|                                  | OM4   | Aqua                         |
| <b>Connector types, end 'B':</b> | LC cassettes, MPO<br>female or male cassettes   |                              |

## optical properties

|  |   |  |
|--|---|--|
| <b>Maximum cable attenuation:</b>        | Singlemode:                             | 1.0dB/km at<br>1310/1550nm               |
|  | Multimode:                              | 3.5dB/km at 850 nm<br>1.5dB/km at 1300nm |
| <b>Maximum connector insertion loss:</b> | Singlemode LC cassette to<br>cassette:  | 0.70dB + cable attenuation               |
|  | Singlemode MPO cassette to<br>cassette: | 1.50dB + cable attenuation               |
|  | Multimode LC cassette to<br>cassette:   | 0.50dB + cable attenuation               |
|  | Multimode MPO cassette to<br>cassette:  | 1.00dB + cable attenuation               |
| <b>Minimum connector return loss:</b>    | Singlemode:                             | OS1/OS2 55dB<br>minimum                  |
|  | Multimode:                              | OM3 26dB minimum<br>OM4 26dB minimum     |

## physical properties

|  |  |
|--|--|
| <b>Cable outside diameter (OD):</b>        | 9mm to 10mm  |
| <b>Minimum bend radius:</b>                | Under load: 20 X Cable OD<br>Static: 10 X Cable OD |
| <b>Cable compressive load:</b>             | 220N/cm short term<br>110N/cm long term            |
| <b>Cable flex:</b>                         | 100 cycles   |
| <b>Connector durability:</b>               | 500 mating cycles                                  |
| <b>Cassette outside diameter:</b>          | 106mm x 22mm                                       |
| <b>Cable tensile strength (installed):</b> | 1335N  |
| <b>Cable twist:</b>                        | 10 cycles  |

## environmental properties

|  |                |
|--|----------------|
| <b>Storage and shipping temperature:</b> | -40°C to +70°C |
| <b>Installation temperature:</b>         | 0°C to +70°C   |
| <b>Operating temperature</b>             | -20°C to +70°C |

## standards

Meets or exceeds ISO/IEC 11801, TIA/EIA-568-C.3, TIA-604-5 (FOCIS-5), TIA/EIA-568-C.1, TIA-604-3 (FOCIS 3), TIA/EIA-604010 (FOCIS 10), RoHS compliant

# QuickNet™ SFQ Trunk Cable Assemblies

## part number

Example: FXTSPXNXNANM030 = Fiber, OM3, 12 fiber, indoor trunk, plenum, LC cassette to LC cassette, std. IL 30 meters.

|           |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|-----------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| CHARACTER | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| EXAMPLE   | F | X | T | S | P | X | N | X | N | S  | N  | M  | 0  | 3  | 0  |

### 1 – Fiber Product

F = Fiber

### 2 – Fiber Type

9 = OS1/OS2 9/125µm

X = OM3 50/125µm

Z = OM4 50/125µm

### 3 – Fiber Count

T = 12 fibers

W = 48 fibers

X = 72-fiber

Y = 96 fibers

### 4 – Cable Type

S = Indoor Trunk

### 5 – Jacket Type

L = LSZH (Low Smoke Zero

Halogen-IEC 60332)

P = OFNP (Plenum per NFPA262)

### 6 – Connector Type (end A)

V = MPO female cassette  
(48, 72, 96 Fibers)

X = LC cassette (12 Fibers Only)

Y = MPO male cassette  
(48, 72, 96 Fibers)

### 7 – Connector Variant (end A)

N = No variant (cassettes)

### 8 – Connector Type (end B)

V = MPO female cassette  
(48, 72, 96 Fibers)

X = LC cassette (12 Fibers Only)

Y = MPO male cassette  
(48, 72, 96 Fibers)

### 9 – Connector Variant (end B)

N = No variant (cassettes)

### 10 – Construction/Performance

A = Polarity A – standard IL  
(MPO only)

S = Standard Polarity – standard IL  
(MPO-Discrete),  
(Discrete-Discrete)

### 11 – Other

N = No pulling eye

### 12 – Unit of Length

F = Feet

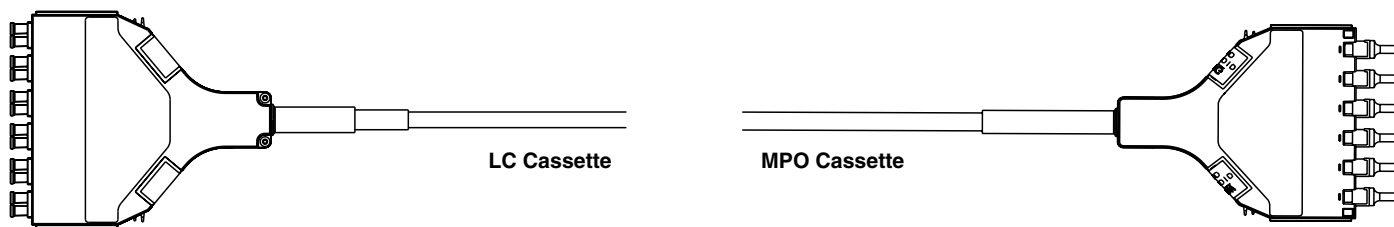
M = Meters

### 13, 14, 15 – Length

F = 015-100

M = 005-030

## cable assembly detail



\*Other options are available as follows:

Fiber Types: OM1 62.5/125, OM2 50/125, OM4+ 50/125 Signature Core™

Fiber Count: 8 fibers (LC connector only)

Construction/Performance: Polarity B –standard IL, Polarity A-optimum IL, Polarity B-optimized IL

Connector Type: MPO male connector, MPO female connector, SC duplex connector

Please contact Panduit customer service for information.

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