

## Pre-terminated Multi Fibre Cable Assemblies

AFL manufactures a broad range of factory terminated multi-fibre cable assemblies. These assemblies are available in various fibre types and counts, cable constructions and connector options. Pre-terminated fibre optic cable assemblies are suitable for deployment in a range of applications.

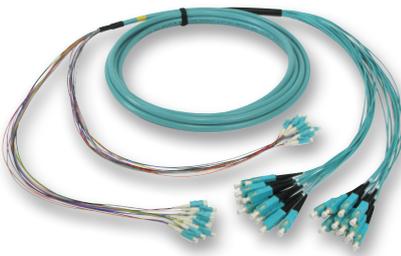
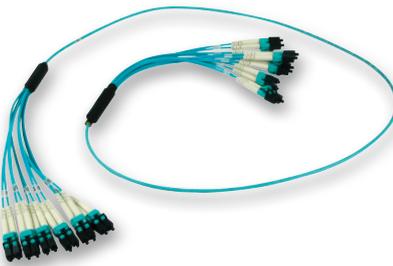
Pre-terminated cables offer the advantage of reduced time and cost associated with on-site cable breakout and connector terminations. They are ideally suited where narrow installation time-frames are applicable or on-site terminations are hazardous or pose OH&S issues.

### Features

- Large range of cable and connector options to suit a variety of applications
- High quality, machine polished connectors for consistent low loss performance
- Reduced equipment cost, training and skill base required for installation
- Faster and less disruptive installations

### Applications

- Intra-building networks
- Fibre deployment between AFL rack mount or wall mount enclosures
- Suitable for when on-site terminations are hazardous or pose OH&S issues



### Manufacturing Options

FIBRE TYPE	RISER CONSTRUCTION	ROUND MINI (RM) 3 MM CONSTRUCTION	BREAKOUT CONSTRUCTION
OS1/2 (SM 9 / 125 µm)	4 - 24F (Yellow sheath)	12F (Yellow sheath)	2-12 (Black or yellow sheath)
OM1 (MM 62.5 / 125 µm)	4 - 24F (Orange sheath)	12F (Orange sheath)	2-12 (Black sheath)
OM3 (MM 50 / 125 µm)	4 - 24F (Aqua sheath)	12F (Aqua sheath)	6, 12 (Aqua sheath)
OM4 (MM 50 / 125 µm)	4 - 24F (Aqua sheath)	12F/48F (Aqua sheath)	6, 12 (Aqua sheath)

Other cable constructions, fibre counts and sheath colours are available upon request, MOQ and lead times may apply.

## Pre-terminated Multi Fibre Cable Assemblies

### Connector Options

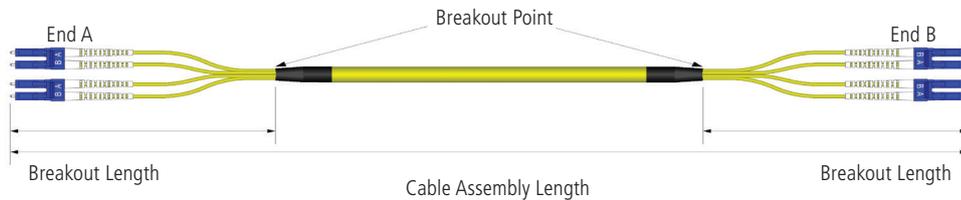
CONNECTORS				
<b>LC</b>	LC MM OM1 Simplex		LC MM OM1 Duplex	
	LC MM OM3/4 Simplex		LC MM OM3/4 Duplex	
	LC SM Simplex		LC SM Duplex	
	LC/APC SM Simplex			
<b>SC</b>	SC MM OM1 Simplex		SC MM OM3/4 Simplex	
	SC SM Simplex		SC/APC SM Simplex	
<b>ST</b>	ST MM OM1 Simplex		ST MM OM3/4 Simplex	
	ST SM Simplex			
<b>FC</b>	FC MM Simplex		FC SM Simplex	
	FC/APC SM Simplex			

## Pre-terminated Multi Fibre Cable Assemblies

### Specifications

#### ASSEMBLY DIMENSIONS

Breakout length is measured from the fibre breakout point to the connector ferrule cable assembly length is measured from connector to connector (including the breakout length).



#### CONNECTOR STAGGERING

Staggering is required when a protective hauling mechanism is used – also available as a stand-alone option. Staggered connectors are paired and spaced 60 mm apart. Unless specified otherwise, the pairs follow the standard colour code and numbering: blue/orange, green/brown, grey/white etc. with pair 1 blue/orange being the longest breakout length.



Heavy Duty Hauling Mechanism

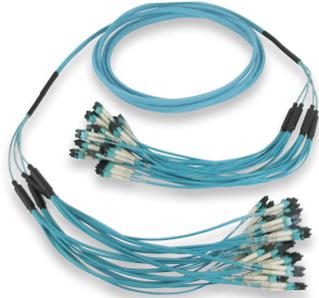


Light Duty Connector Protection Mechanism

#### HAULING AND PROTECTIVE/PLACEMENT MECHANISMS

	MATERIAL AND CONSTRUCTION	OUTER DIAMETER (MM)	ADVANTAGES	LIMITATIONS
Hauling – Heavy Duty* (for riser construction)	Nylon braiding with inner protective foam tubing and cable kevlar pulling loop	50 mm > 24 F	Hauling force is directly applied to cable kevlar allowing for cable rated pulling force	Not recommended for use in ducting or conduit smaller than 100 mm
Hauling – Medium Duty* (for riser and breakout construction)	Clear, flexible, non-kinking tubing with cable kevlar pulling loop. 20 mm tubing has 16 mm gland. 25 mm tubing has 20 mm gland.	20 mm > 6 F 25 mm > 12 F	Hauling force is directly applied to cable kevlar allowing for cable rated pulling force. Low level moisture protection.	Not recommended for use in ducting or conduit smaller than 100 mm. Cable gland cannot be removed.
Protective – Light Duty* (for riser and breakout construction)	Clear, flexible, non-kinking tubing	20 mm > 6 F 25 mm > 12 F	Low cost, easily removed connector protection	Fibre breakout and connector protection only

**Specifications (Continued)**



RMB4LCLC5M-48-3H11  
LC-LC 48 F OM4 pre-terminated bundled round mini  
5 m, 500 mm breakouts with 2 mm duplex zero fibre  
oversleeving both ends.



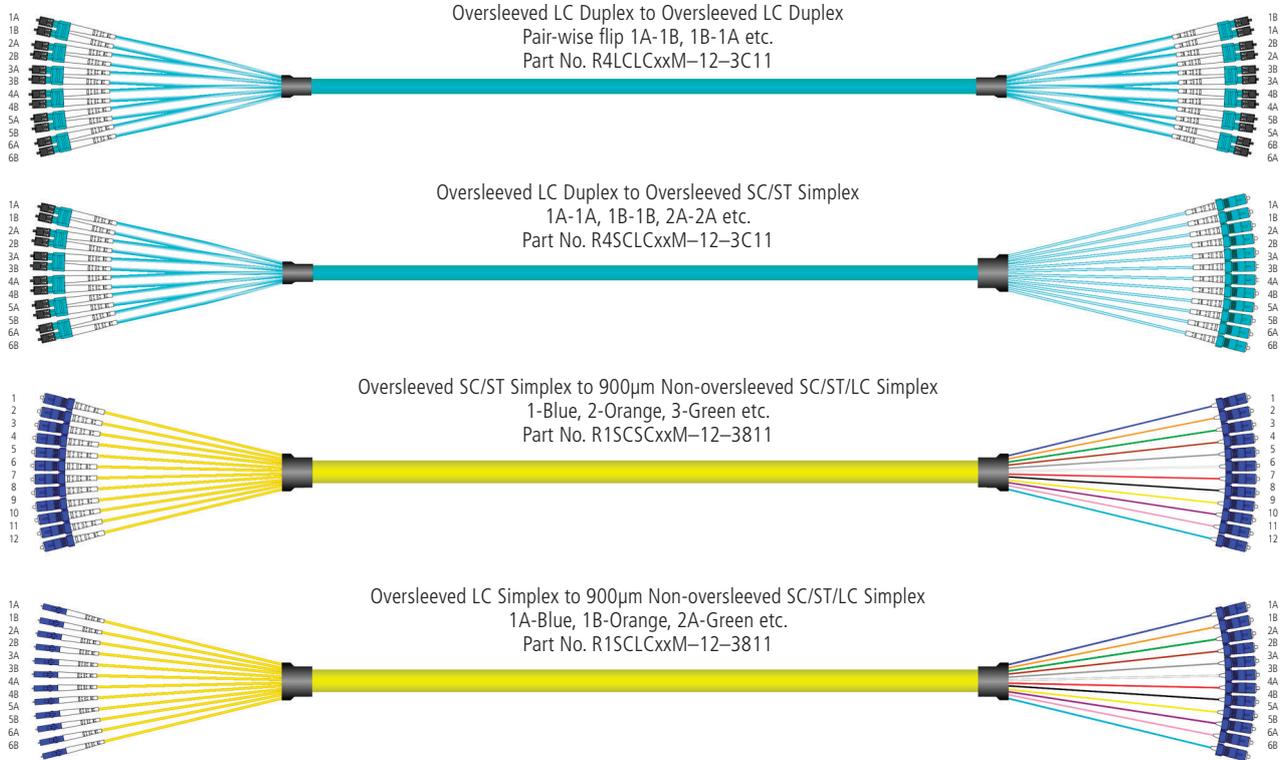
RUF1SCSC20M-12-3581  
SC – SC 12 fibre singlemode pre-terminated  
riser cable 20 m, 500 mm breakouts with 3 mm yellow  
zero fibre oversleeving both ends, cable glands both ends

CONNECTOR PERFORMANCE			
LC, SC, ST and FC connectors*			
	Multimode	Singlemode	
	at 850 and 1300 nm	UPC at 1310 and 1550 nm	APC at 1310 and 1550 nm
	Typical	Typical	Typical
Insertion Loss (dB)	0.25	0.25	0.25
Return Loss (dB)	–	55	65

\* Please contact AFL for connector performance of other connectors

## Pre-terminated Multi Fibre Cable Assemblies

### Assembly Configuration Options



### Ordering Information

#### Oversleeving

- 1 – Not Required
- 4 – Yellow 3 mm end A
- 5 – Yellow 3 mm end A&B
- 6 – Orange 3 mm end A
- 7 – Orange 3 mm end A&B
- 8 – Yellow 2 mm end A
- 9 – Yellow 2 mm end A&B
- A – Orange 2 mm end A
- B – Orange 2 mm end A&B
- C – Aqua 2 mm end A
- D – Aqua 2 mm end A&B
- H – Aqua 2 mm DUPLEX zero tubing, end A & B RM & RRM cables only
- I – Yellow 2 mm DUPLEX zero tubing, end A & B RM & RRM cables only

#### Drum

- 1 – Not required
- 2 – Drum (for over 40 m)

