

3M™ External Cable Assembly Module (ECAM) FCA Factory-Terminated Fiber Cable Assembly

The 3M™ External Cable Assembly Module (ECAM) FCA Factory-Terminated Fiber Cable Assembly is factory terminated with connectors on one or both ends. It is available with SC or LC connectors and in lengths ranging from 50 to 1200 feet (15 to 365 m). The ECAM FCA is available with the same connector on both ends or a different connector on each end i.e., LC and SC. The innovative design of the ECAM FCA fiber drop allows the SC or LC connector to be replaced with a field-assembled connector, thus allowing the cable assembly to be salvaged if the SC or LC connector is damaged. The ECAM FCA is shipped with a pulling sock on one end to protect the fiber terminations and to allow the cable assembly to be pulled through trees and conduit.

The ECAM FCA is constructed with OFNR Indoor/Outdoor round fiber cable with normal and heavy jacketing. The cable is equipped with 900 μ m tight buffered, bend-insensitive ITU-T G.657.A fiber.

The ECAM FCA fiber cable assembly can be used with the following 3M™ Fiber Optic Terminal Closures or Terminals:

1. 3M™ Fiber Dome Stubbed Terminal – FDST 08 & FDST 08S
2. 3M™ Fiber Dome Terminal Closure FDTC 08S & FDTC 08M with Internal Drop Termination
3. 3M™ SLiC™ Fiber Aerial Terminal Closure 530 Internal Drop Termination

These products utilize the External Cable Assembly Module (ECAM) built-in, drop entry port system. The ECAM design allows true plug-and-play capability, which can reduce installation and labor costs when installing the 3M Factory-Terminated ECAM FCA Cable Assembly. Also, the built-in drop entry system allows the technician to add and remove ECAM FCA cables from the terminal without disturbing previously installed ECAM FCA cables.

The ECAM FCA Factory-Terminated Fiber Cable Assemblies are Rural Utilities Services (RUS) Listed.



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Pulling sock for the 3M™ External Cable Assembly Module (ECAM) FCA Factory-Terminated Cable Assembly

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Connector Specifications

Feature	Specification			
Connector type	SC/APC	SC/UPC	LC/APC	LC/UPC
Number of connectors	2, 4 or 6	2, 4 or 6	2, 4 or 6	2, 4 or 6
Max. insertion loss	0.40 dB	0.40 dB	0.40 dB	0.40 dB
Max. return loss	-60 dB	-50 dB	-60 dB	-50 dB

Cable Specifications

Feature	Specification
Cable design	Round-Dielectric, single, indoor/outdoor 900 µm fiber, BIF Round-Dielectric, single, indoor/outdoor 2.5 mm subunit with 900 µm fiber, BIF; heavy jacket
Fiber type	900 µm tight buffer, bend-insensitive ITU-T G.657.A Fiber
Max. cable retention	100 lb.
Installation pull-through	100 lb.
Min. conduit diameter	1.25" (32 mm) with ECAM Pulling Sock
Cable compliance	Telcordia GR-20

Features	Benefits
ECAM cable entry port termination system	Allows true plug & play capability without disturbing previously installed cables when adding and removing ECAM FCA cable assemblies. This helps to reduce installation & labor cost since the cable assemblies are connectorized at the factory.
Factory installed pulling sock	The pulling sock is installed at the factory which helps reduce the labor required to install the fiber cable assembly and helps eliminate possible damage to the terminated ends of the cable during the installation process.
GR-20 certified indoor/outdoor dielectric cable with BIF	The ECAM FCA is available with OFNR indoor/outdoor rated cable with 900 µm tight buffered, bend-insensitive fiber (BIF). This allows the cable to be routed into buildings without the need for a transition point. The BIF fiber allows the cable and terminated fibers to be routed and stored in areas with limited space.
Available with various types of connectors	The ECAM FCA Cable Assemblies can be equipped with LC, ST, or SC connectors. ECAM FCA is available with a different connector type on each end. GR-326 Certified connectors are available upon special request.
One end or both ends of the drop cable is factory prepared	Minimal training, lower installed cost.
Available with various lengths	Available in lengths from 50' (15 m) to 1200' (365 m).
Replaceable damaged drop connector	Innovative design of the ECAM FCA fiber cable allows the SC & LC connector version to be replaced with a field-assembled connector. Thus, allowing the cable to be salvaged if the connector is damaged.

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Model Number ECAM-FCA X - X - X - XX - XXXX

Connector End 1	
A	ECAM, SC/APC with 900 µm tight buffer
B	ECAM, SC/UPC with 900 µm tight buffer
C	ECAM, LC/APC with 900 µm tight buffer
D	ECAM, LC/UPC with 900 µm tight buffer
E	ECAM, ST with 900 µm tight buffer
F	ECAM, FC with 900 µm tight buffer
N	Bare Fiber

Connector End 2	
A	ECAM, SC/APC with 900 µm tight buffer
B	ECAM, SC/UPC with 900 µm tight buffer
C	ECAM, LC/APC with 900 µm tight buffer
D	ECAM, LC/UPC with 900 µm tight buffer
E	ECAM, ST with 900 µm tight buffer
F	ECAM, FC with 900 µm tight buffer
G	NO ECAM, LC/UPC with 2.5 mm tight buffer
N	No connector

Cable & Fiber Type	
A	Flat - Dielectric, single, 250 µm fiber
B	Flat - Dielectric, ribbon, 250 µm fiber
C	Flat - Tenable, single, 250 µm fiber
D	Flat - Tenable, ribbon, 250 µm fiber
E	Round - Dielectric, single, indoor/outdoor, 900 µm fiber, BIF
F	Round - Dielectric, single, indoor/outdoor, 2.5 mm subunit with 900 µm fiber, BIF; heavy jacket

Cable Length - feet (meters)	
0050	50 feet (15 m)
0082	82 feet (25 m)
0100	100 feet (30 m)
0150	150 feet (45 m)
0165	165 feet (50 m)
0200	200 feet (60 m)
0250	250 feet (75 m)
0300	300 feet (90 m)
0330	330 feet (100 m)
0400	400 feet (120 m)
0500	500 feet (150 m)
0600	600 feet (180 m)
0700	700 feet (210 m)
0800	800 feet (240 m)
0900	900 feet (270 m)
1000	1000 feet (305 m)
1100	1100 feet (335 m)
1200	1200 feet (360 m)

of Connectors
0, 4, 6, 8, & 12

3M™ External Cable Assembly Module (ECAM) Factory-Terminated Fiber Cable Assembly Ordering Information

Product Number	Product Description	3M ID	Min. Order
ECAM-FCA-A-D-E-06-0100	100-foot cable assembly with 6 SC/APC and LC/UPC connectors	80-6113-3324-8	1
ECAM-FCA-A-D-E-06-0200	200-foot cable assembly with 6 SC/APC and LC/UPC connectors	80-6113-3391-7	1
ECAM-FCA-A-D-E-06-0300	300-foot cable assembly with 6 SC/APC and LC/UPC connectors	80-6113-3392-5	1
ECAM-FCA-A-D-E-06-0400	400-foot cable assembly with 6 SC/APC and LC/UPC connectors	80-6113-3405-5	1
ECAM-FCA-A-D-E-06-0500	500-foot cable assembly with 6 SC/APC and LC/UPC connectors	80-6113-3406-3	1
ECAM-FCA-A-D-E-06-0600	600-foot cable assembly with 6 SC/APC and LC/UPC connectors	80-6113-3407-1	1
ECAM-FCA-A-D-E-06-0700	700-foot cable assembly with 6 SC/APC and LC/UPC connectors	80-6113-3408-9	1
ECAM-FCA-A-D-E-06-0800	800-foot cable assembly with 6 SC/APC and LC/UPC connectors	80-6113-3409-7	1
ECAM-FCA-A-D-E-06-0900	900-foot cable assembly with 6 SC/APC and LC/UPC connectors	80-6113-3410-5	1
ECAM-FCA-A-D-E-06-1000	1,000-foot cable assembly with 6 SC/APC and LC/UPC connectors	80-6113-3411-3	1

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