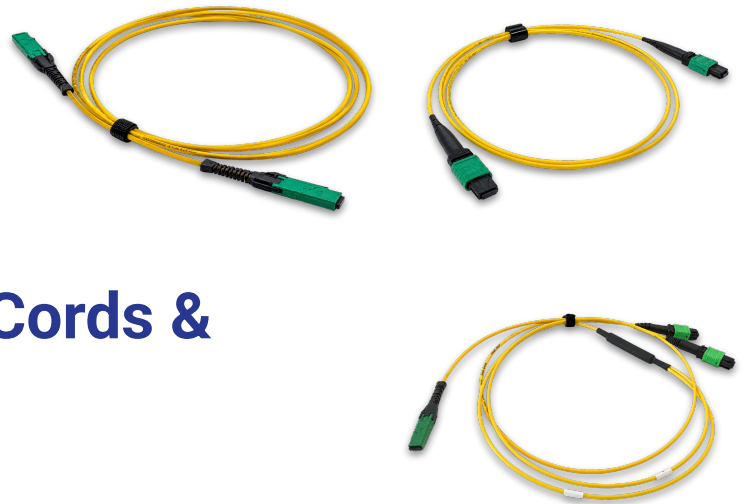




High-Density Fiber Array Cords & Breakout Assemblies

8F-32F

Product Details

STL Fiber Array Cords and Breakout Assemblies are designed for high-density MMC, MPO, MTP and LC terminations, meeting the stringent requirements of ANSI/ICEA S-83-596 and UL OFNP, Thermoplastic Plenum or OFNR, Thermoplastic Riser cable standards. To minimize overall cable diameter, multiple colored loose tube optical Fibers are combined with high-strength aramid yarns and enclosed within a dry, water blocked Thermoplastic Plenum or Riser rated jacket. The unique cable designs result in smaller overall cable diameters for improved cable management. All cable assemblies are 100% tested to STL's stringent optical performance specifications. The assemblies are offered in 8, 12, 16, 24 or 32 fiber configurations.

Features & Benefits:

- Ideal for use in Data Centers
- Offered in Plenum (OFNP) or Riser (OFNR) jacket ratings
- Offered standard with Single-mode G.657.A2 200 μm or 250 μm fiber or Multimode Fiber OM4 250 μm fiber, enabling operation in confined spaces with tight routing and reduced bend radius.
- Offered in Base-8, Base-12, Base-16 and Base-24 with MMC16/24, MTP12/16/24, MPO12/16 and LC connectors
- Supports 40-1600GB/s Ethernet and InfiniBand applications

Product Specifications

Fiber Types	ITU-T G.657.A2 250 µm, ITU-T G.657.A2 200 µm, OM4 250 µm
Fiber Count	8, 12, 16, 24, 32
Jacket Colour	OS2: Yellow, OM4: Aqua
Length Tolerance	Connector tip-to-tip: 0 to 5m: +100mm/-0; 5m to 10m: +200mm/-0
Outer Jacket Material	OFNP, OFNR
Connector Housing	SM: Green, OM4: Aqua
Connector Boot	Black

Optical Specifications

MMC/MPO/LC Performance		Max IL (dB)	Min RL(dB)
Connector	Performance Level	@1310/1550nm	@1310/1550nm
SM MMC16/APC SM MMC24/APC	Ultra Low Loss	≤ 0.35	≥ 65dB
SM MPO/APC	Low Loss	≤ 0.35	≥ 60dB
	Ultra Low Loss	≤ 0.30	
MM MPO/PC	Low Loss	≤ 0.30	≥ 25dB
	Ultra Low Loss	≤ 0.25	
MM MPO/APC	Low Loss	≤ 0.35	≥ 60dB
	Ultra Low Loss	≤ 0.30	
LC/UPC	Low Loss	≤ 0.25	≥ 55dB
LC/APC			≥ 60dB

Optical Fiber Characteristics			
Parameter	Single-Mode Fiber		Multimode Fiber
Fiber Type	ITU-T G.657.A2 250 µm	ITU-T G.657.A2 200 µm	OM4 250 µm
Operating Wavelengths (nm)	1310/1383/ 1550	1310/1383/ 1550	850 / 1300
Maximum Attenuation (dB/km)	0.4 / 0.4 / 0.3	0.4 / 0.4 / 0.3	3.0 / 1.0

Mechanical Specifications

Cable Mechanical & Environmental Characteristics		
Cable Characteristics	Cable Performance	Testing Standard Method
Tensile Strength - Long Term	100 N*	ICEA 596 FOTP-33
Tensile Strength - Short Term	33 N	ICEA 596 FOTP-33
Crush	350 N/100mm	ICEA 596 FOTP-41
Impact	0.74 Nm	ICEA 596 FOTP-25
Torsion	± 180°C, 4 Kg, 10 Cycles, 1 m	ICEA 596 FOTP-35
Cable Bend Radius - Short Term / Dynamic	15 x Cable OD (outer diameter)	ICEA 596 FOTP-88
Cable Bend Radius - Long Term / Static	10 x Cable OD (outer diameter)	ICEA 596 FOTP-88
Temperature Performance		ICEA 596 FOTP-3
Installation	0° C to +60° C	
Operation	-10° C to +60° C	
Storage	-40° C to +75° C	

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Cables with SM G.657.A2 200 µm Fiber

Fiber Count	Cable Nominal OD mm(Inches)	Min Bend Radius (Long Term) mm (inches)	Min Bend Radius (Short Term) mm (inches)	Cable Weight Kg/km (lbs/Kft)
8	2.0 (0.08)	20 (0.8)	30 (1.2)	4.0 (0.002)
12	2.0 (0.08)	20 (0.8)	30 (1.2)	4.0 (0.002)
16	2.0 (0.08)	20 (0.8)	30 (1.2)	4.0 (0.002)
24	2.3 (0.09)	22 (0.9)	34.5 (1.35)	5.0 (0.003)
32	2.5 (0.10)	25 (1.0)	37.5 (1.5)	5.5 (0.004)

Cables with SM G.657.A1/A2 250 µm or OM4 250 µm Fiber

Fiber Count	Cable Nominal OD mm(Inches)	Min Bend Radius (Long Term) mm (inches)	Min Bend Radius (Short Term) mm (inches)	Cable Weight Kg/km (lbs/Kft)
8	2.3 (0.09)	22 (0.9)	34.5 (1.35)	5.0 (0.003)
12	2.3 (0.09)	22 (0.9)	34.5 (1.35)	5.0 (0.003)
16	2.3 (0.09)	22 (0.9)	34.5 (1.35)	5.0 (0.003)
24	2.3 (0.09)	22 (0.9)	34.5 (1.35)	5.0 (0.003)

Connector Options



*MMC16/24



* MP012/16



* MTP12/16/24



*LC Unibody

Fibers and Cable Performance Standards

- Cable assemblies comply to the following standards: IEC 60793, IEC 60794, ANSI/ICEA S-83-596, ITU-T, RoHS, REACH, EIA/TIA-598C
- UL 1651/1666 Standards:
- OFNR - Optical Fiber Non-Conductive Riser
- OFNP - Optical Fiber Non-Conductive Plenum, Compliant with NEC Article 770

*Images generated by AI

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Part Number Configurator

1	2	3	4	5	6	7	8	9	10	11	12
Product Type	Cable Type	Fiber Type	Fiber Count	Jacket Type	Polarity	Connector 1	Connector 2	Loss Type	Length Unit	Length Unit	Special Stagger
AC	L	6	C	P	B	26	26	L	M	001	0

1	2	3	4	5	6
Product Type	Cable Type	Fiber Type	Fiber Count	Jacket Type	Polarity
AC Array Cord	L Indoor Micro Loose Tube J Indoor IBR	9 SM G657A1 250 µm 2 SM G657A2 250 µm 4 OM4 250 µm 6 SM G657A2 200 µm	A 8F B 12F C 16F D 24F E 32F	R OFNR/LSZH P OFNP	A Type A B Type B C Type C T MMC Trunk J MMC Jumper E MMC Extender

For other parameters refer next page

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7

Connector 1

11	8F MTP Base-8 pinned
12	8F MTP Base-8 unpinned
13	12F MTP Base-12 pinned
14	12F MTP Base-12 unpinned
15	16F MTP Base-16 pinned
16	16F MTP Base-16 unpinned
17	24F MTP Base-24 pinned
18	24F MTP Base-24 unpinned
21	8F MMC Base-8 pinned
22	8F MMC Base-8 unpinned
23	12F MMC Base-12 pinned
24	12F MMC Base-12 unpinned
25	16F MMC Base-16 pinned
26	16F MMC Base-16 unpinned
27	24F MMC Base-24 pinned
28	24F MMC Base-24 unpinned
31	16F MPO Base-16 pinned
32	16F MPO Base-16 unpinned
33	8F MPO Base-8 pinned
34	8F MPO Base-8 unpinned
35	12F MPO Base-8 pinned
36	12F MPO Base-8 unpinned

8

Connector 2

11	8F MTP Base-8 pinned
12	8F MTP Base-8 unpinned
13	12F MTP Base-12 pinned
14	12F MTP Base-12 unpinned
15	16F MTP Base-16 pinned
16	16F MTP Base-16 unpinned
17	24F MTP Base-24 pinned
18	24F MTP Base-24 unpinned
21	8F MMC Base-8 pinned
22	8F MMC Base-8 unpinned
23	12F MMC Base-12 pinned
24	12F MMC Base-12 unpinned
25	16F MMC Base-16 pinned
26	16F MMC Base-16 unpinned
27	24F MMC Base-24 pinned
28	24F MMC Base-24 unpinned
31	16F MPO Base-16 pinned
32	16F MPO Base-16 unpinned
33	8F MPO Base-8 pinned
34	8F MPO Base-8 unpinned
35	12F MPO Base-8 pinned
36	12F MPO Base-8 unpinned
37	LC Unibody/UPC
38	LC Unibody/APC
39	LC Duplex UPC
40	LC Duplex APC
UT	Unterminated/ Pigtail

9

Loss Type

L	Low Loss
U	Ultra Low Loss

10

Length Unit

M	Meter
F	Foot

Note: Maximum Length of 10 meters recommended

11

Length Unit

001	1M
010	10M

12

Special Stagger

0	No Connector Stagger/Flush
1	Special Stagger 1
2	Special Stagger 2
3	Special Stagger 3

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