

Features and Benefits

Molex Lightband Armor Loose Tube consist of indoor/outdoor rated fiber optic loose tube cables encased with aluminum or steel spirally wrapped armor in an interlocking configuration. The armored cable is then covered with a plenum rated jacket to prevent snags during installation.

- Eliminates the need for conduit or plenum innerduct
- Significant cost savings in both materials and labor - up to 25%
- Accommodates last minute relocations or pathway changes
- Provides a higher concentration of cables in an area than conduit
- Armor provides crush protection and protection from rodent attacks

Commercial Standards

EN 50173; ISO/IEC 11801
ANSI/ICEA S-104-696; ANSI/ICEA S-87-640; ANSI/TIA-568-C.3; Telcordia GR-409

Fire Propagation Tests

Non-Plenum: UL OFNR/FT4
Plenum: UL OFNP/FT6

Reference Information

Applications
Molex Lightband armor loose tube fiber cable can be used in any of the following installation environments: indoor/outdoor, in backbones, between closets and in fiber to the desk.

Lightband Armor LT is a viable and cost effective solution for applications where a pathway is beyond its full ratio, for areas where extra physical security is a concern, in fast track installations, between buildings, direct buried, or in trays.

Molex recommends installation procedures per ANSI/TIA-758, Customer-owned Outside Plant Telecommunications Infrastructure Standard.

• 10BASE-FL• 100BASE-SX/100BASE-FX• ATM 155/ATM622• 1000BASE-SX/1000BASE-LX• Fiber Channel 1.062/2.125• 10GBASE-SR/SW• 10GBASE-LX4• 40/100 GbE

Technical Information

Mechanical Characteristics

Type of cable: Loose tube
Outer sheath: OFNR or OFNP

Sheath color
Non-Plenum (OFNR)
OS1/2, OM1, OM2, OM3, OM4: Black
Plenum (OFNP)
OS1/2: Yellow
OM1 & OM2: Orange
OM3 & OM4: Aqua

Armor type: Aluminum Interlock

Physical Characteristics

OS1/2
Attenuation, max. 1550 nm (cabled): 0.3
Attenuation Max. 1310 nm (cabled): 0.4
Attenuation, max. 1300 nm (cabled) [dB/km]: 1.0

OM1 & OM2
Attenuation, max. 850 nm (cabled): 3.5
Attenuation, max. 1300 nm (cabled) [dB/km]: 1.0

OM3 & OM4
Attenuation, max. 850 nm (cabled): 3.0
Attenuation, max. 1300 nm (cabled) [dB/km]: 1.0

Electrical/Optical Characteristics

Fiber optic type: OS1/2, OM1, OM2, OM3, or OM4



Fiber Count	Min. Bend Radius Long Term [in]	Max. Load Long Term [N]	Min. Bend Radius Install [in]	Approx. Weight [lb/kft]	Max. Installation Tension [lb]
6	6.2	400	9.3	126	300
12	6.2	400	9.3	136	300
24	8.5	400	12.8	208	300
48	7.3	890	11	186	600
72	7.7	890	11.6	223	600

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ORDERING INFORMATION



Lightband Armor Loose Tube Fiber Optic Cable

Order No.	SAP No.	Description
AFXLTR006OM3	Consult Molex	Fiber Cable, Armored Loose Tube, 6 fiber, OM3, OFNR
AFXLTR012OM3	Consult Molex	Fiber Cable, Armored Loose Tube, 12 fiber, OM3, OFNR
AFXLTR024OM3	Consult Molex	Fiber Cable, Armored Loose Tube, 24 fiber, OM3, OFNR
AFXLTR048OM3	Consult Molex	Fiber Cable, Armored Loose Tube, 48 fiber, OM3, OFNR
AFXLTR072OM3	Consult Molex	Fiber Cable, Armored Loose Tube, 72 fiber, OM3, OFNR
AFXLTR006OM2	Consult Molex	Fiber Cable, Armored Loose Tube, 6 fiber, OM2, OFNR
AFXLTR012OM2	Consult Molex	Fiber Cable, Armored Loose Tube, 12 fiber, OM2, OFNR
AFXLTR024OM2	Consult Molex	Fiber Cable, Armored Loose Tube, 24 fiber, OM2, OFNR
AFXLTR048OM2	Consult Molex	Fiber Cable, Armored Loose Tube, 48 fiber, OM2, OFNR
AFXLTR072OM2	Consult Molex	Fiber Cable, Armored Loose Tube, 72 fiber, OM2, OFNR
AFXLTR006OM1	Consult Molex	Fiber Cable, Armored Loose Tube, 6 fiber, OM1, OFNR
AFXLTR012OM1	Consult Molex	Fiber Cable, Armored Loose Tube, 12 fiber, OM1, OFNR
AFXLTR024OM1	Consult Molex	Fiber Cable, Armored Loose Tube, 24 fiber, OM1, OFNR
AFXLTR048OM1	Consult Molex	Fiber Cable, Armored Loose Tube, 48 fiber, OM1, OFNR
AFXLTR072OM1	Consult Molex	Fiber Cable, Armored Loose Tube, 72 fiber, OM1, OFNR
AFXLTR006OS2	Consult Molex	Fiber Cable, Armored Loose Tube, 6 fiber, OS1/2, OFNR
AFXLTR012OS2	Consult Molex	Fiber Cable, Armored Loose Tube, 12 fiber, OS1/2, OFNR
AFXLTR024OS2	Consult Molex	Fiber Cable, Armored Loose Tube, 24 fiber, OS1/2, OFNR
AFXLTR048OS2	Consult Molex	Fiber Cable, Armored Loose Tube, 48 fiber, OS1/2, OFNR
AFXLTR072OS2	Consult Molex	Fiber Cable, Armored Loose Tube, 72 fiber, OS1/2, OFNR
AFXLTR006OM4	Consult Molex	Fiber Cable, Armored Loose Tube, 6 fiber, OM4, OFNR
AFXLTR012OM4	Consult Molex	Fiber Cable, Armored Loose Tube, 12 fiber, OM4, OFNR
AFXLTR024OM4	Consult Molex	Fiber Cable, Armored Loose Tube, 24 fiber, OM4, OFNR
AFXLTR048OM4	Consult Molex	Fiber Cable, Armored Loose Tube, 48 fiber, OM4, OFNR
AFXLTR072OM4	Consult Molex	Fiber Cable, Armored Loose Tube, 72 fiber, OM4, OFNR
AFXLTP006OM3	Consult Molex	Fiber Cable, Armored Loose Tube, 6 fiber, OM3, OFNP
AFXLTP012OM3	Consult Molex	Fiber Cable, Armored Loose Tube, 12 fiber, OM3, OFNP
AFXLTP024OM3	Consult Molex	Fiber Cable, Armored Loose Tube, 24 fiber, OM3, OFNP
AFXLTP048OM3	Consult Molex	Fiber Cable, Armored Loose Tube, 48 fiber, OM3, OFNP
AFXLTP072OM3	Consult Molex	Fiber Cable, Armored Loose Tube, 72 fiber, OM3, OFNP
AFXLTP006OM2	Consult Molex	Fiber Cable, Armored Loose Tube, 6 fiber, OM2, OFNP
AFXLTP012OM2	Consult Molex	Fiber Cable, Armored Loose Tube, 12 fiber, OM2, OFNP
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AFXLTP006OM1	Consult Molex	Fiber Cable, Armored Loose Tube, 6 fiber, OM1, OFNP
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AFXLTP006OS2	Consult Molex	Fiber Cable, Armored Loose Tube, 6 fiber, OS1/2, OFNP
AFXLTP012OS2	Consult Molex	Fiber Cable, Armored Loose Tube, 12 fiber, OS1/2, OFNP
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AFXLTP006OM4	Consult Molex	Fiber Cable, Armored Loose Tube, 6 fiber, OM4, OFNP
AFXLTP012OM4	Consult Molex	Fiber Cable, Armored Loose Tube, 12 fiber, OM4, OFNP
AFXLTP024OM4	Consult Molex	Fiber Cable, Armored Loose Tube, 24 fiber, OM4, OFNP
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