

Indoor/Outdoor LSZH Special Applications Tube Cables

Sumitomo Electric Lightwave's FutureFLEX® Indoor/Outdoor LSZH Special Application Tube Cables are designed for use as an optical fiber cabling infrastructure in Air-Blown Fiber® applications which meets NFPA 130 (Standard for Fixed Guideway Transit and Passenger Rail Systems) and low smoke zero halogen (LSZH) requirements. These requirements include FT-4-ST-1/IEEE 1202 exposure requirements for char height, total smoke released, and peak smoke released rate of ANSI/UL 1685.

These tube cables may also be used in indoor applications where (1) Optical Fiber Nonconductive/Conductive Riser-rated (OFNR/OFNR or FT4-ST-1) apply, or (2) no fire ratings apply.

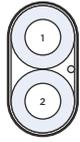
The MTIO series are pulled or placed in indoor/outdoor routes for the purpose of individual tube interconnection to establish pathways for FutureFLEX® fiber bundle installation.

SPECIFICATIONS

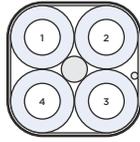
PROPERTY	SPECIFICATION
Non-Armored Tube Cables (MTIO Series)	UL/cUL FT4 NFPA 130 Indoor/Outdoor Tube Cables
Armored Tube Cables (MTIO-2 Series)	With Interlocked Galvanized Steel Armor LSZH Jacketed
Transit and Passenger Rail Systems	NFPA 130, IEEE 1202, ANSI/UL 1685, UL1666, OFNR, FT-4-ST1
Operation Temperature Range	-40°F to +158°F (-40°C to +70°C)
Minimum Bend Radius (During/After Installation)	20 / 10 x Cable O.D.
Standard Reel Length	3,000 ft (+30 ft / -0 ft)
Maximum Reel Length	3,000 ft (+30 ft / -0 ft)
Metallic Elements (Armored Tube Cables Only)	Bonding / Grounding Required
M.O.Q. (Armored Tube Cables Only)	1,000 ft
Inner Tube I.D. / O.D.	6 mm / 8 mm



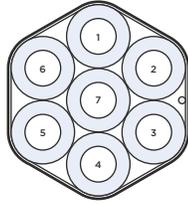
TUBE COUNTS



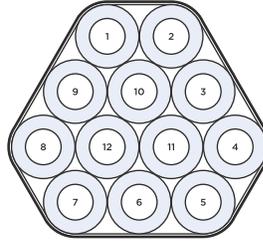
2-Tube



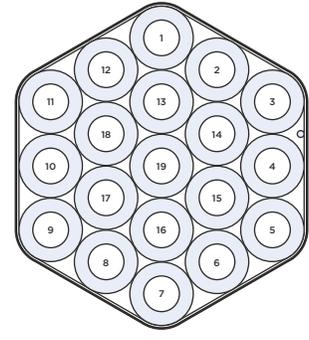
4-Tube



7-Tube



12-Tube



19-Tube

ORDERING INFORMATION

Standard Tube Cables — Inventory Products (2, 7, and 19 Tube Cables Only)

PART NUMBER	TUBE COUNT	O.D.	MAX WEIGHT	STD LENGTH
		IN	LBS/KFT	FT
TC02MTIO	2	0.84	128	3,000
TC02MTIO-2	2	1.20	531	3,000
TC07MTIO	7	1.14	336	3,000
TC07MTIO-2	7	1.50	1,001	3,000
TC19MTIO	19	1.78	672	3,000
TC19MTIO	19	2.17	1,850	3,000

Special Order Only Tube Cables — Non-Inventory Products (4 and 12 Tube Cables Only)

PART NUMBER	TUBE COUNT	O.D.	MAX WEIGHT	STD LENGTH
		IN	LBS/KFT	FT
TC04MTIO-4	4 (CSM)	0.97	235	3,000
TC04MTIO-2	4 (CSM)	1.38	623	3,000
TC12MTIO	12	1.43	437	3,000
TC12MTIO-2	12	1.77	1,223	3,000

To learn more information visit www.SumitomoElectricLightwave.com