

# Outdoor Enhanced Thermal Stability Tube Cables (Aerial and Duct)

Sumitomo Electric Lightwave's FutureFLEX® Outdoor Enhanced Thermal Stability Tube Cables (Aerial and Duct) are multi-tube cables designed for use in creating tube cable infrastructures in outdoor environments where non-conductive elements are desired or required.

The MSOS is designed for all normal OSP environments and in aerial or duct applications requiring enhanced thermal stability (i.e., on poles, refineries, industrial outdoor installations, or above frost lines/exposed to ambient air temperature changes).

## FEATURES

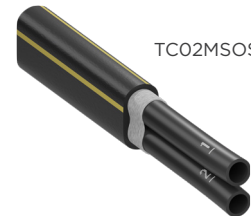
- Dry Tape Water-blocked Cable Core
- Interlocked Steel Armor
- Ultra-High Performance Tubing Technology
- Cable Length Markings at 2 Foot Intervals
- Tube ID Numbers Marked at 2 Inch Intervals
- Meets TIA Standards

## SPECIFICATIONS

PROPERTY	SPECIFICATION
Application	Aerial; Duct
Environment	Outdoor
Operation Temperature Range (ICEA 640)	-40°F to +158°F (-40°C to +70°C) (ICEA 640)
Minimum Bend Radius (During / After Installation)	20 / 10 x Cable OD
Standard Reel Length	3,000 ft. (+30 ft./-0 ft.)
Maximum Reel Length	3,000 ft. (+30 ft./-0 ft.)
Metallic Elements (Armored Only)	Bonding/Grounding Required
Inner Tube ID / OD	6mm / 8mm



TC07MSOS



TC02MSOS



TC04MSOS



TC07MSOS



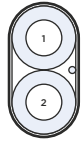
TC12MSOS



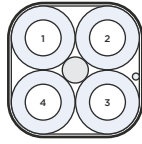
TC19MSOS

To learn more information visit [www.SumitomoElectricLightwave.com](http://www.SumitomoElectricLightwave.com)

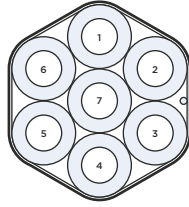
**TUBE COUNTS**



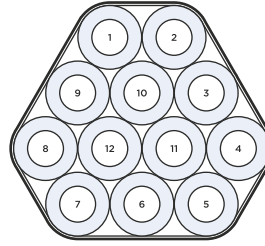
2-Tube



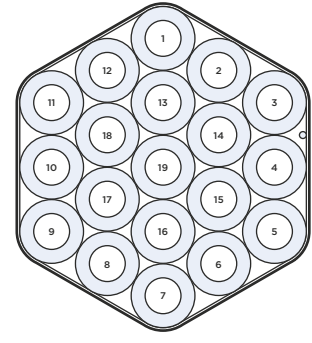
4-Tube



7-Tube



12-Tube



19-Tube

**ORDERING INFORMATION**

**Non-Armored Tube Cables (MSOS Series)**

Water-Blocked Tube Cables; Low Shrink with Four Yellow Stripes

PART NUMBER	TUBE COUNT	O.D.	MAX WEIGHT	MAX TENSILE LOAD	STD LENGTH	MAX LENGTH
		IN	LBS/KFT	LBS	FT	FT
TC02MSOS	2	0.81	90	200	3,000	3,000
TC04MSOS	4 (CSM)	0.94	146	200	3,000	3,000
TC07MSOS	7	1.14	203	400	3,000	3,000
TC12MSOS	12	1.51	300	400	3,000	3,000
TC19MSOS	19	1.77	444	600	3,000	3,000

**Armored Tube Cables (MSOS-2 Series)**

Water-Blocked Tube Cables; Low Shrink with Four Yellow Stripes; with Jacketed Interlocked Steel Armor

PART NUMBER	TUBE COUNT	O.D.	MAX WEIGHT	MAX TENSILE LOAD	STD LENGTH	MAX LENGTH
		IN	LBS/KFT	LBS	FT	FT
TC02MSOS-2	2	1.20	490	500	3,000	3,000
TC04MSOS-2	4 (CSM)	1.34	538	500	3,000	3,000
TC07MSOS-2	7	1.54	874	600	3,000	3,000
TC12MSOS-2	12	1.89	1,089	600	3,000	3,000
TC19MSOS-2	19	2.20	1,653	600	3,000	3,000

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