

SOLO® ADSS Medium-Span, Loose Tube, Gel-Filled Cable

48 F, Single-mode (OS2)

CORNING

Corning Cable Systems SOLO® ADSS Medium-Span Cables are all-dielectric, self-supporting (ADSS) cables designed for easy and economical one-step installation in campus backbones with self-supporting installations where metallic messengers cannot be used. The loose tube design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber. The economical single jacket design can span distances of 800 ft in NESC light conditions, 650 ft in NESC medium conditions and 450 ft in NESC heavy conditions.

This cable incorporates innovative waterblocking materials, eliminating the need for traditional flooding compound and providing efficient and craft-friendly cable preparation. While the concentric, self-supporting cable design allows easy, one-step installation, using standard hardware and installation methods, the SZ-stranded, loose tube design isolates optical fibers from installation and environmental rigors and facilitates midspan access. The ADSS optical cables are also available with a proprietary track resistant polyethylene (TRPE) jacket suitable for installation in electric field potentials up to 25 kV.

Features and Benefits

Loose tube design

Stable performance and compatibility with all common fiber types

Self-supporting

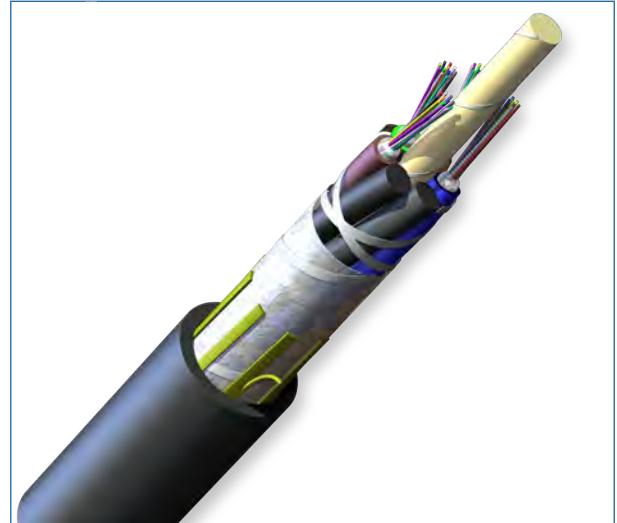
Easy, one-step installation

Track-resistant jacket available

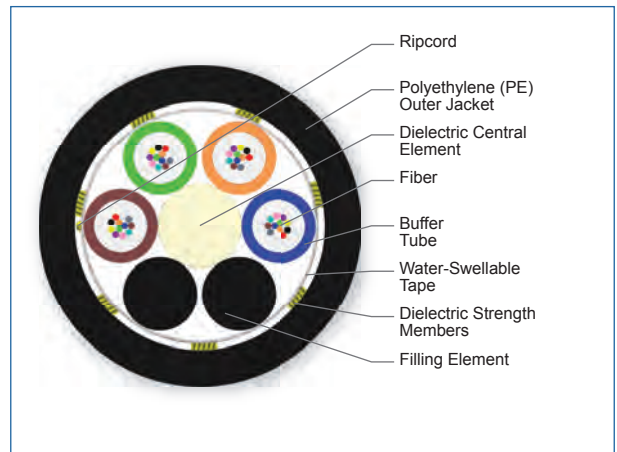
Suitable for installations up to 25 kV electric field potential

Innovative waterblocking cable core

Provides efficient and craft-friendly cable preparation



Part Number: 048EN4-T4M01A20



Cross Section of Part Number: 048EN4-T4M01A20

Standards

Approval and Listings	RDUP 7 CFR 1755.900 (RUS)
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Common Installations	Outdoor self-supporting aerial
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Design and Test Criteria	ANSI/ICEA S-87-640
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Specifications

General Specifications

Environment	Outdoor
Application	Self-Supporting
Cable Type	Loose Tube
Product Type	Self-Supporting
Fiber Category	Single-mode (OS2)

Temperature Range

Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-30 °C to 70 °C (-22 °F to 158 °F)
Operation	-40 °C to 70 °C (-40 °F to 158 °F)

Cable Design

Central Element	Dielectric
Fiber Count	48
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	6
Number of Active Tubes	4
Buffer Tube Color Coding	Blue, Orange, Green, Brown
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	2
Tape	Water-swellaable
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Number of Ripcords	2
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black

Mechanical Characteristics Cable

Weight	97 kg/km (65 lb/1000 ft)
Nominal Outer Diameter	11.3 mm (0.45 in)
Min. Bend Radius Installation	170 mm (6.7 in)

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Mechanical Characteristics Cable

Min. Bend Radius Operation	113 mm (4.5 in)
PLP Dead-End Hardware Part Number	28729491

Installation Conditions

	Initial Installation		NESC Light		NESC Medium		NESC Heavy	
Span m (ft)	SAG %	Tension N (lbf)	SAG %	Tension N (lbf)	SAG %	Tension N (lbf)	SAG %	Tension N (lbf)
107 (350)	1.0	1283 (288)	0.6	2493 (560)	2.5	3337 (750)	3.7	4754 (1069)
122 (400)	1.0	1466 (330)	0.6	2777 (624)	2.5	3698 (831)	3.8	5248 (1180)
137 (450)	1.0	1649 (371)	0.6	3053 (686)	2.7	4048 (910)	3.9	5726 (1287)
152 (500)	1.0	1833 (412)	0.6	3324 (747)	2.7	4389 (987)	-	-
168 (550)	1.0	2016 (453)	0.7	3590 (807)	2.8	4723 (1062)	-	-
183 (600)	1.0	2199 (494)	0.7	3851 (866)	2.8	5050 (1135)	-	-
198 (650)	1.0	2382 (536)	0.7	4108 (924)	2.9	5371 (1208)	-	-
213 (700)	1.0	2566 (577)	0.7	4362 (981)	-	-	-	-
229 (750)	1.0	2749 (618)	0.7	4613 (1037)	-	-	-	-
244 (800)	1.0	2932 (659)	0.7	4861 (1093)	-	-	-	-

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Type	Single-mode
Fiber Core Diameter	8.2 µm
Fiber Category	OS2
Fiber Code	E
Performance Option Code	01
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m

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* ITU-T G.652 D compliant.

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.

Notes: 1) Improved attenuation and bandwidth options available.
2) Bend-insensitive single-mode fibers available on request.
3) *Contact a Corning Cable Systems Customer Care Representative for additional information.*

Ordering Information

Part Number	048EN4-T4M01A20
Product Description	SOLO® ADSS Medium-Span, Loose Tube, Gel-Filled Cable, 48 F, Single-mode (OS2)



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