

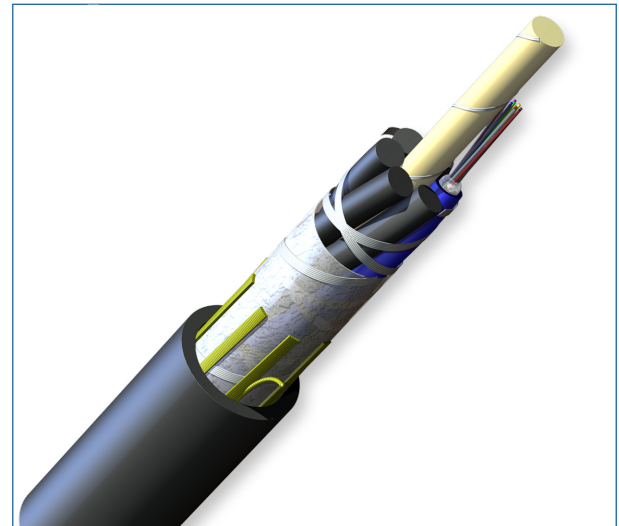
SOLO® ADSS Medium-Span, Loose Tube, Gel-Filled Cable

12 F, 62.5 µm multimode (OM1)

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.



Part Number: 012KN4-T4M30A20

Features and Benefits

Loose tube design

Stable performance and compatibility with all common fiber types

Self-supporting

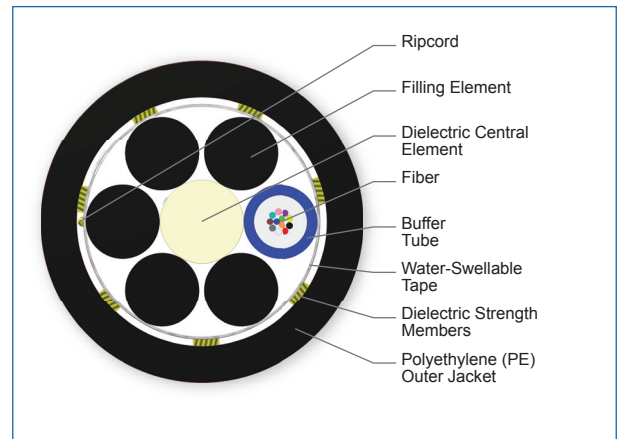
Easy, one-step installation

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



Cross Section of Part Number: 012KN4-T4M30A20

Standards

Approval and Listings RDUP 7 CFR 1755.900 (RUS)

Common Installations Outdoor self-supporting aerial

Design and Test Criteria ANSI/ICEA S-87-640

CORNING

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

12 F, 62.5 µm multimode (OM1)

CORNING

Specifications

General Specifications	
Environment	Outdoor
Application	Self-Supporting
Cable Type	Loose Tube
Product Type	Self-Supporting
Fiber Category	62.5 µm MM (OM1)

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	12
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	1
Buffer Tube Color Coding	Blue
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	5
Tape	Water-swellable
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)

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

12 F, 62.5 µm multimode (OM1)

CORNING

Mechanical Characteristics Cable

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

Installation Conditions

Span m (ft)	Initial Installation		NESC Light		NESC Medium		NESC Heavy	
	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
------	---

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

12 F, 62.5 µm multimode (OM1)

CORNING

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Type	Multimode
Fiber Core Diameter	62.5 µm
Fiber Category	OM1
Fiber Code	K
Performance Option Code	30
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.4 dB/km / 1.0 dB/km
Min. Overfilled Launch (OFL) Bandwidth	200 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	220 MHz*km / -
Serial 1 Gigabit Ethernet	300 m / 550 m
Serial 10 Gigabit Ethernet	33 m / -

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	012KN4-T4M30A20
Product Description	SOLO® ADSS Medium-Span, Loose Tube, Gel-Filled Cable, 12 F, 62.5 µm multimode (OM1)



Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/cablesystems

A complete listing of the trademarks of Corning Cable Systems is available at www.corning.com/cablesystems/trademarks.

Corning Cable Systems is ISO 9001 certified. © 2012 Corning Cable Systems. All rights reserved.

CORNING