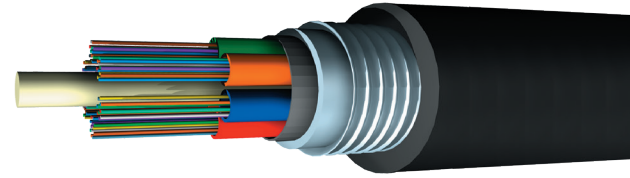


# Gel-Free Armored OSP Loose Tube (LE Series Gel-Free SJ SA)

AFL LE-Series Gel-Free Single Jacket Single Armor fiber optic cables incorporate dry water-absorption technology within the fiber-containing buffer tubes along with the protection of steel corrugated armor.



## Features

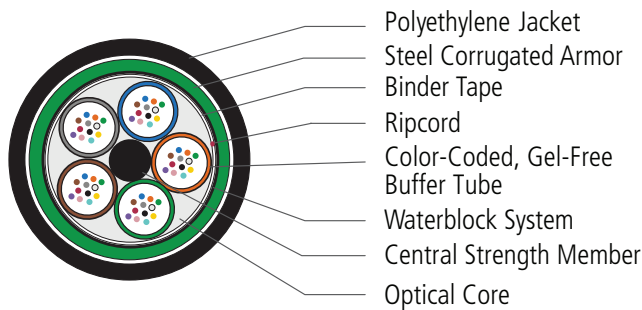
- Build America/Buy America options available
- Fiber counts from 12 to 216
- Gel-free buffer tubes reduce fiber prep termination time
- UV-stabilized outer jacket for long-term performance in aerial applications
- Crush and rodent-resistant protection from steel armor
- Cable markings are hot stamp printed
- Easy to prep

## Applications

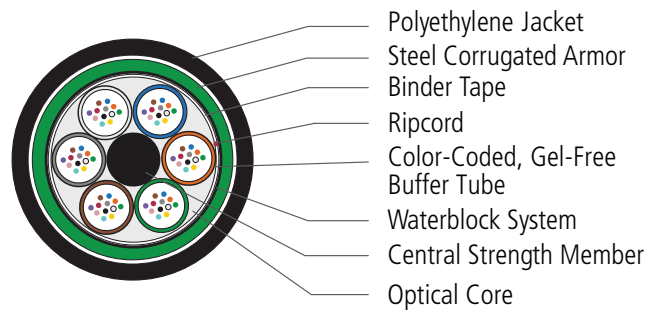
- Distribution
- Direct bury
- Underground duct
- Long Haul networking
- Building Interconnections (Campus LAN)
- Local Loop

## Cable Components

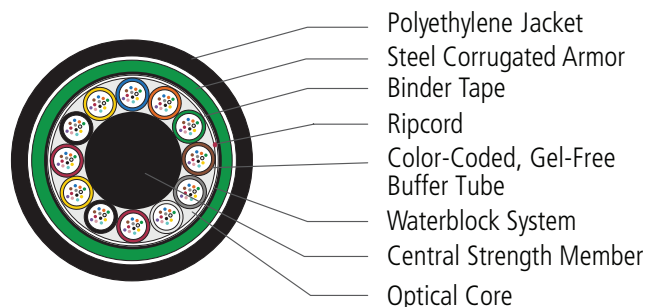
Armored Loose Tube Cable with 5-unit Fiber Optic Core



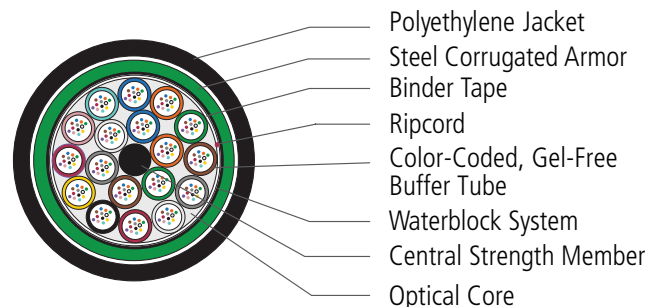
Armored Loose Tube Cable with 6-unit Fiber Optic Core



Armored Loose Tube Cable with 12-unit Fiber Optic Core



Armored Loose Tube Cable with 18-unit Fiber Optic Core



continued  
→

# Gel-Free Armored OSP Loose Tube (LE Series Gel-Free SJ SA)

## Fiber Specifications

Fiber Type	"X"	Standard	Mode Field Diameter	Attenuation	
				1300 nm	1550 nm
250 µm Single-mode	9	ITU-T G.652D/657.A1	9.2 µm nominal	0.35	0.25
Corning 250 µm Single-mode	AZ	ITU-T G.652D/657.A1	9.2 µm nominal	0.35	0.25
BABA-Compliant 250 µm Single-mode	BK	ITU-T G.652D/657.A1	9.2 µm nominal	0.35	0.25
BABA-Compliant Corning 250 µm Single-mode	BL	ITU-T G.652D/657.A1	9.2 µm nominal	0.35	0.25

## Typical Lengths

Fiber Count	Maximum Lengths*	
	Single-Mode	
	Feet	Meters
12-60	22,960	7000
72-96	22,960	7000
144	22,960	7000
216	22,960	7000

\* Longer lengths may be available upon request.

## Mechanical Data

AFL No.	Fiber Count	No. of Tubes	Nominal Diameter	Nominal Weight	Maximum Tensile Load Lbs (N)		Minimum Bend Radius Inches (Cm)	
		Fibers/Tube	Inches (mm)	Lbs/1000ft (kg/km)	Short Term	Long Term	Short Term	Long Term
LE012xC5201S1D**	12	1-12 (4 fillers)	0.484 (12.3)	87 (129)	600 (2670)	180 (800)	10 (25)	8 (19)
LE024xC5201S1D**	24	2-12 (3 fillers)	0.484 (12.3)	86 (129)	600 (2670)	180 (800)	10 (25)	8 (19)
LE048xC5201S1D**	48	4-12 (1 fillers)	0.484 (12.3)	86 (127)	600 (2670)	180 (800)	10 (25)	8 (19)
LE072xC6201S1D**	72	6-12 (no fillers)	0.516 (13.1)	96 (144)	600 (2670)	180 (800)	11 (27)	8 (20)
LE096xC8201S1D**	96	8-12 (no fillers)	0.575 (14.6)	117 (174)	600 (2670)	180 (800)	12 (30)	9 (22)
LE144xC201S1D**	144	12-12 (no fillers)	0.709 (18.0)	173 (257)	600 (2670)	180 (800)	15 (36)	11 (27)
LE216xC1201S1D**	216	18-12 (no fillers)	0.709 (18.0)	160 (238)	600 (2670)	180 (800)	15 (36)	11 (27)

**NOTE:** Diameter and weight subject to change without notice.

\* Fiber Types - Replace "x" in AFL number with number in the Fiber Specifications table on previous page.

\*\* For BABA-Compliant Part Number, add "-B" to end of part number.

## Reel Information

ITEM	REEL 1		REEL 2		REEL 3		REEL 4	
	inches	cm	inches	cm	inches	cm	inches	cm
Reel Height	58	147	66	168	72	183	84	213
Reel Width Outside	38	97	42	107	42	107	44	112
Reel Width Inside	32	81	36	91	36	91	38	97
Drum Diameter	28	71	36	91	36	91	35	89
Min. Arbor Hole Diameter	3	7.9	3	7.9	3	7.9	3	7.9
Tare Weight	441	200	573	260	662	300	917	416

AFL typically provides Loose Tube cable on several standard sizes of non-returnable wooden reels. Non-standard reel sizes are available upon request. Larger reel sizes may be required to accommodate long cable lengths.

## Qualifications

GOVERNING BODY	STANDARD CODE	COMPONENT
Telcordia	GR-20-CORE	Cable
ICEA	640	Cable
TIA	598-D	Fiber

## Temperature Specifications

TEMPERATURE RANGE	
Operation	-40°C to +70°C
Storage	-40°C to +75°C
Installation	-30°C to +70°C

Contact AFL for your customized cable solution.

