

## Part Number: LF-GNDC-SX-LCZH

### Description: GROVE Drop Cable

This FTTP optical fiber drop cable is designed with a central optical fiber, reinforced with FRP on both sides for protection, and covered with an LSZH sheath for safety in indoor environments. This type of cable is commonly used in fiber optic communication networks to deliver high-speed and reliable internet services to homes or businesses.

#### Characteristics:

FTTP Optical Fiber Drop Cable:

This is likely a type of fiber optic cable designed for connecting the central office or main distribution point to the customer's premises, providing high-speed internet or other optical communication services.

Positioned in the Center:

The optical fiber itself is positioned in the center of the cable. This is the core component responsible for transmitting the optical signals.

Parallel Reinforced (FRP) on Two Sides:

Two parallel reinforced components made of Fiber Reinforced Plastic (FRP) are placed on each side of the optical fiber. FRP provides strength and support to the cable, protecting it from external forces and helping maintain the integrity of the optical signal.

LSZH Sheath:

The cable is completed with a black or colored Low Smoke Zero Halogen (LSZH) sheath. LSZH is a type of cable jacket material that emits limited smoke and no halogen when exposed to fire. This is especially important for safety in indoor applications as it reduces the release of harmful substances during a fire.

#### Fibre Parameters:

No.	Items		Unit	Specification
				G.657A2
1.	Mode Field Diameter	1310nm		8.5 - 9.3 $\mu$ m
		1550nm		9.4 - 10.4 $\mu$ m
2.	Cladding Diameter		$\mu$ m	124.8 $\pm$ 0.7
5.	Coating Diameter		$\mu$ m	245 $\pm$ 5
8.	Cable Cutoff Wavelength		nm	$\lambda_{cc} \leq 1260$
9.	Attenuation (max)	1310 nm	dB/Km	$\leq 0.45$
		1550nm	dB/Km	$\leq 0.30$
10.	Macro-Bending Loss	1 turn x 10mm radius @ 1550nm	dB	$\leq 0.10$
		1 turn x 10mm radius @ 1625nm	dB	$\leq 0.20$



Technical Support: 1300 732 254

Web: [www.grovecoms.com.au](http://www.grovecoms.com.au)

Unit 3&4, 15 Drake Street, Osborne Park WA 6017

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Description: **GROVE Drop Cable**

## Cable Parameters:

Items		Specifications
Fibre Count		1
Coloured Coating Fibre	Dimension	250 ± 15 µm
	Colour	White
Jacket	Dimension	(2.0 ± 0.1)mm x (3.1 ± 0.1)mm
	Material	PVC/LSZH
	Colour	Black
Strength Member		Steel Wire

## Mechanical &amp; Environmental Characteristics:

Items	Unit	Specifications
Tension (Long Term)	N	30
Tension (Short Term)	N	60
Crush (Long Term)	N/10cm	300
Crush (Short Term)	N/10cm	1000
Min. Bend Radius (Dynamic)	mm	30
Min. Bend Radius (Static)	mm	15
Installation Temperature	°C	-20 ~ +60
Operating Temperature	°C	-20 ~ +60
Storage Temperature	°C	-20 ~ +60

## Custom Information:

- Jacket Colour: Black, Blue, Orange, Green, Brown, Slate, White, Red, Yellow, Purple, Rose, Aqua or custom specified.
- Fibre Colour: Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Purple, Rose, Aqua or customer specified.
- Fibre Type: Single-Mode, MulÉ-Mode
- Sheath Material: PE, PVC, LSZH or customer specified cable
- Length: Custom specified.

## Applications:

- FFTH Pit to Premise (within conduit)
- Riser within GPON installations.



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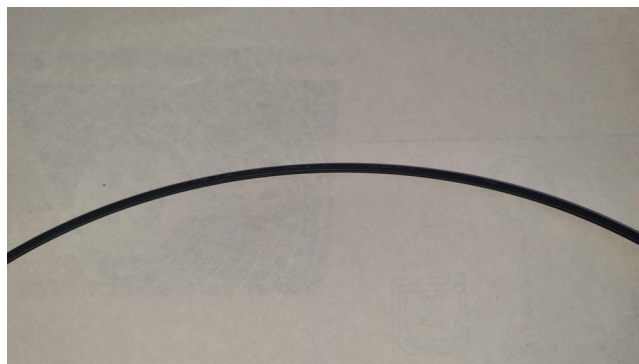
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Part Number	Description	Termination
LF-GNDC-SX-LSZH	SM 9/125 Simplex Drop Cable LSZH-Per Meter	UN-TERMINATED
AO-GNDCSMSXSCASCA-035	SCA-SCA SM 9/125 SX Drop Cable 35M	TERMINATED
AO-GNDCSMSXSCASCA-045	SCA-SCA SM 9/125 SX Drop Cable 45M	TERMINATED
AO-GNDCSMSXSCASCA-025	SCA-SCA SM 9/125 SX Drop Cable 25M	TERMINATED
AO-GNDCSMSXSCASCA-003	SCA-SCA SM 9/125 SX Drop Cable 3M	TERMINATED
AO-GNDCSMSXSCASCA-017	SCA-SCA SM 9/125 SX Drop Cable 17M	TERMINATED
AO-GNDCSMSXSCASCA-055	SCA-SCA SM 9/125 SX Drop Cable 55M	TERMINATED
AO-GNDCSMSXSCASCA-065	SCA-SCA SM 9/125 SX Drop Cable 65M	TERMINATED
AO-GNDCSMSXSCASCA-075	SCA-SCA SM 9/125 SX Drop Cable 75M	TERMINATED
AO-GNDCSMSXSCASCA-030	SCA-SCA SM 9/125 SX Drop Cable 30M	TERMINATED
AO-GNDCSMSXSCASCA-050	SCA-SCA SM 9/125 SX Drop Cable 50M	TERMINATED
AO-GNDCSMSXSCASCA-150	SCA-SCA SM 9/125 SX Drop Cable 150M	TERMINATED
AO-GNDCSMSXSCASCA-170	SCA-SCA SM 9/125 SX Drop Cable 170M	TERMINATED
AO-GNDCSMSXSCASCA-095	SCA-SCA SM 9/125 SX Drop Cable 95M	TERMINATED
AO-GNDCSMSXSCASCA-115	SCA-SCA SM 9/125 SX Drop Cable 115M	TERMINATED
AO-GNDCSMSXSCASCA-135	SCA-SCA SM 9/125 SX Drop Cable 135M	TERMINATED
AO-GNDCSMSXSCASCA-155	SCA-SCA SM 9/125 SX Drop Cable 155M	TERMINATED

**PRODUCT:**



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