

LP-OC51120064TG

All dielectric self supporting Fiber Optical Cable for up to 75m span with Loose Tubes and Single PE Jacket, with Central Strength Member FRP, Peripheral Aramid® Yarns, Dry Water Blocking Tape, 6 multimode, OM4 50/125 ClearCurve™ fibers and Ripcord.

LPOC51120064TG_SS_ENB01W

Applications:

- Interbuilding voice or data communication backbones.
- Campus Lan.
- Designed for rough conditions.
- Outdoor applications.
- Usable lashed Aerial, ducted or direct burial.
- Subscriber network systems.
- Local area network systems.

Halo™


LP-OC51120064TG

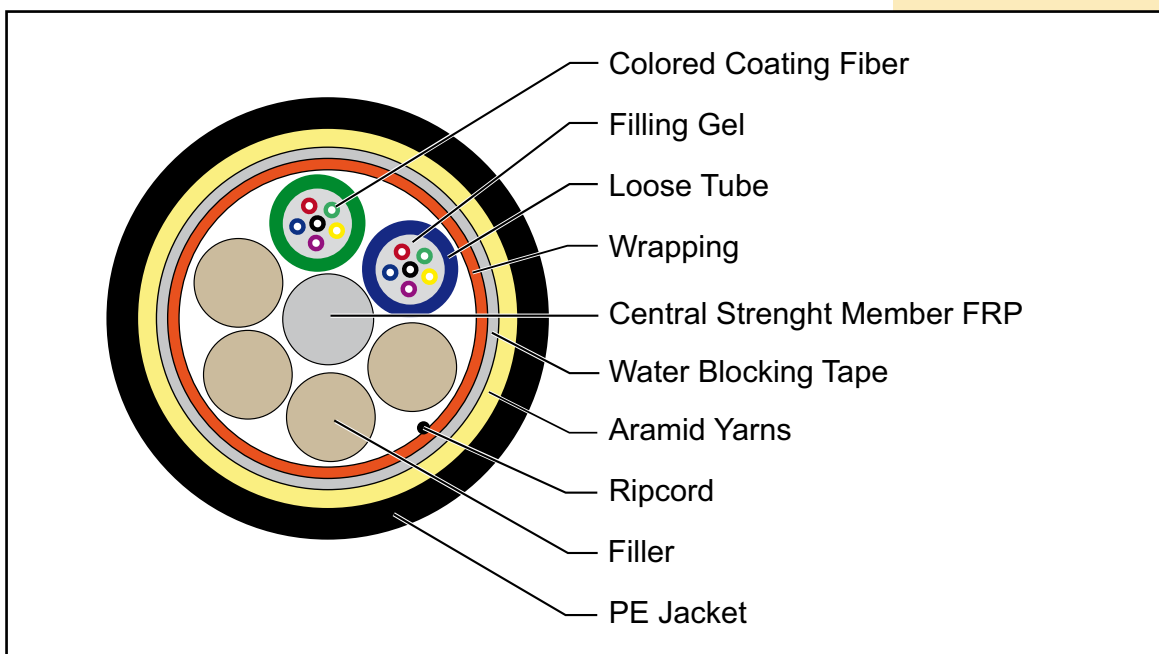
All dielectric self supporting Fiber Optical Cable for up to 75m span with Loose Tubes and Single PE Jacket, with Central Strength Member FRP, Peripheral Aramid® Yarns, Dry Water Blocking Tape, 6 multimode, OM4 50/125 ClearCurve™ fibers and Ripcord.

The **LP-OC51120064TG** Outdoor Multi-Fiber Gel Filled Loose Tube Single PE Black Color Jacket Fiber Optic Cable, type Halo™, with FRP Central Strength Member and Pheripheral Aramid Yarns for strength, Dry Water Block Tape with Rip Cord, 6 Multi-Mode ClearCurve® OM4 50/125 Fibers for 10 Gb/s 10GBASE-SR Channel over 550m at 850 nm and 10Gb/s 10GBASE-LX4 Channel over 300m at 1300nm and 1 Gb/s over 1100 m at 850 nm belongs to the LanPro LP-OC51XX Type 51 Halo™ family of Optical Cables and is what the industry calls an Outside Plant Cable, for underground conduits or ducts or in aerial/lashed deployment for Outdoor applications.

Loose tube style, optical fiber cable not armored, with non-metallic central strength member of FRP and peripheral strength members of Aramid® yarns and a water blocking Tape as a dry moisture barrier, the cable is protected by a black PE oversheath and is suitable for duct or aerial applications.

The tubes contain six (6) up to Fibers.

A Typical Cross-Section



B Product Construction

Fiber:

- 6 OM4 Clear Curve™ fibers
- Loose tube gel-filled for moisture protection
- Color-coding per TIA/EIA 598 B
- Performance Table:

ISO 11801 Classified	Core Dia. (microns)	Window(nm)	Max. Length m@10Gb/s	Ethernet Channel
OM4	50	850	550	10GBASE-SR
OM4	50	1300	300	10GBASE-LX4

Central Strength Member:

- FRP (Fibre Reinforced Plastic)
(A rod made of Epoxy/glass).

Peripheral strength

- Aramid® yarns for protection.

Water Blocking

- Water blocking tape.

Jacket

- Black UV- and moisture-resistant polyethylene (PE).
- Sequential meter markings standard/ Footage optional.

Features:

- Loose tube gel-filled construction for superior fiber protection.
- UV- and moisture-resistant design.
- Dry Water Stop Blocking technology cable core for ease of handling.

Compliances:

- ANSI/TIA/EIA 568 B.3
- Meets FOTP EIA-455-3
- Meets or exceeds Telcordia GR-20
- RoHS Compliant Directive 2002/95/EC

INTL. CERTIFICATIONS:

- CANADA UL: DUXR7.E329019L, DUXR7.E329018
- USA UL: DUXR. E329018, DUXR.E329019
- ISO/IEC 11801 Type OM4
- IEC 60793-2-10 Type A1a.3
- TIA/EIA 492AAAD

C Fiber Parameters

ITEM	DESCRIPTION		UNIT	VALUE
				50/125 μ m
1	LanPro Type		TG	
	Corning		ClearCurve® OM4	
	Standards Compliance		ISO/IEC 11801 Type OM4 IEC 60793-2-10 Type A1a.3 TIA/EIA 492AAAD ITU G651.1	
	Optimized Data Rate Over Distance		10 Gb/s over 550m at 850 nm over a 10GBASE-SR ETHERNET Channel	
			10 Gb/s over 300m at 1300nm over a 10GBASE-LX4 ETHERNET Channel	
			1 Gb/s over 1100 m at 1300 nm	
2	Core Diameter		μ m	62.5 $\pm$ 2.5
3	Cladding Diameter		μ m	125.0 $\pm$ 2.0
4	Cladding Non-circularity		%	$\leq$ 1.0
5	Core-Clad Concentricity		μ m	$\leq$ 1.5
6	Coating Diameter		μ m	242 $\pm$ 5
7	Core Non-Circularity		%	$\leq$ 5.0
8	Numerical Aperture		0.275 $\pm$ 0.015	
9	Cladding-Coating Concentricity Error		μ m	$\leq$ 12.0
10	Bandwidth(min)	850 nm	MHz $\times$ Km	3500
		1300nm	MHz $\times$ Km	500
10	Attenuation Coefficient	850 nm	dB/Km	$\leq$ 2.3
		1300 nm	dB/Km	$\leq$ 0.6
11	Macrobend Loss	Mandrel Radius	Number of Turns	Induced attenuation (dB) 850nm-1300nm
		15	2	$\leq$ 0.1 $\leq$ 0.3
		7.5	2	$\leq$ 0.2 $\leq$ 0.5

D Fiber Core Environmental Specifications

ENVIRONMENTAL TEST	TEST CONDITION	INDUCED ATTENUATION 850 AND 1300 NM (DB/KM)
Temperature Dependence	-60 °C a + 85 °C	$\leq$ 0.1
Temperature Humidity Cycling	-10 °C a + 85 °C y 4 % a 98 % RH	$\leq$ 0.1
Water Immersion	23 °C	$\leq$ 0.2
Heat Aging	85 °C $\pm$ 2 °C	$\leq$ 0.2
Damp Heat	85 °C at 85% RH	$\leq$ 0.2

E Cable Parameters

ITEMS		SPECIFICATIONS
Fiber Count		6
Colored Coating Fiber	Dimension	250 μm $\pm$ 15 μm
Loose tube	Dimension	2.0 mm $\pm$ 0.05 mm
	Material	PBT
Filler	Dimension	1.95 $\pm$ 0.1 mm
	Material	PP
Central Strength Member	Dimension	2.0 mm
	Material	FRP
Outer Jacket	Dimension	10.0 $\pm$ 0.3 mm
	Thickness	2.0 mm
	Weight	80.0 $\pm$ 5 Kg/Km
	Material	PE
	Color	Negro

F Mechanical and Environmental Characteristics

ITEMS	UNITS	SPECIFICATION
Tension (Long Term)	N	600
Tension (Short Term)	N	1500
Crush (Long Term)	N/10cm	300
Crush (Short Term)	N/10cm	1000
Min. Bend Radius(Dynamic)	mm	20 D
Min. Bend Radius(Static)	mm	10 D
Installation Temperature	°C	-20 a +60
Operating Temperature	°C	-40 a +70
Storage Temperature	°C	-40 a +70

G How to Order

LP-OC51120064TG All dielectric self supporting Fiber Optical Cable for up to 75m span with Loose Tubes and Single PE Jacket, with Central Strength Member FRP, Peripheral Aramid® Yarns, Dry Water Blocking Tape, 6 multimode, OM4 50/125 ClearCurve™ fibers and Ripcord.