DATA SHEET

2103-024XX

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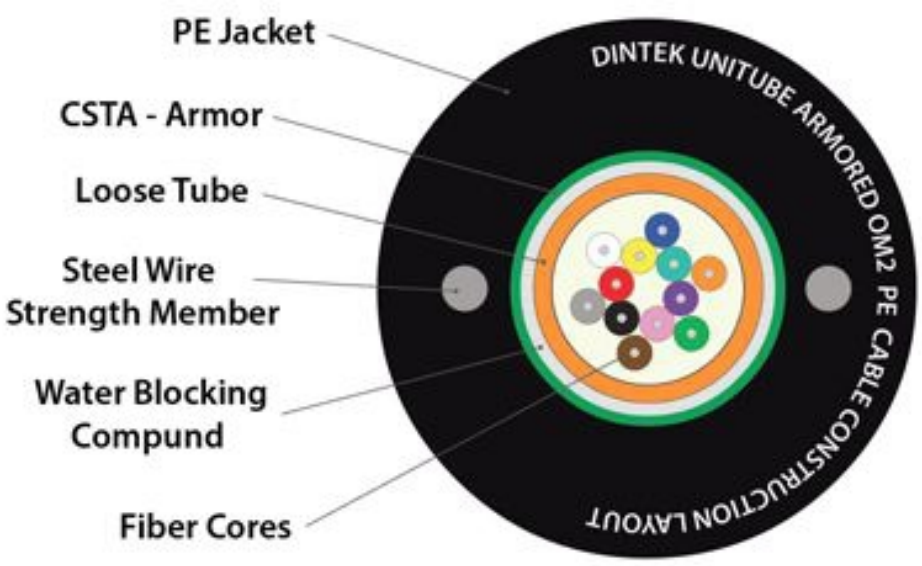
Light-LINKS OM2 Unitube Armored Fiber Cable

DINTEK Light-LINKS™ Corrugated Steel Armoured Uni-tube cable is designed to provide superior strength and robustness in demanding applications like industrial plant, mining or those areas where the cable may be exposed to physical damage. CSTA also supplies superior rodent resistance. It can be directly buried, ploughed or installed in conducts and ducts or installed on trays.

Optical fibers are contained in a loose tube and strengthened with a corrugated Steel Tape Armour with a bonded polyethylene outer sheath.

Main Features

- 02~24 Cores
- Central tube design.
- Color-coded fiber for easy identification\
- MDPE for outside jacket material
- Good mechanical and temperature performance
- High strength loose tube that is hydrolysis resistant
- Special tube filling compound ensures critical protection
- Crush resistance and flexibility
- PSP enhancing moisture-proof
- Two parallel steel wires ensure tensile strength
- Small diameter, light-weight and friendly installation



Applications

- Duct/Aerial
- Exterior use only
- Backbone in LAN,MAN,WAN
- 10Gbps Ethernet
- 550MHz Broadband Video
- SAN, Data Center

Standards

- Bellcore GR-20-CORE
- ISO/IEC11801
- ANSI/TIACabling Standard 568-2.D
- CENELEC EN 50173
- IEC60794-1

Ordering Information

Product Number	Product Name	Std Pkg Qty	
2103-02440	Light-LINKS™ 4 Core Unitube Armored OM2 Fiber Optic Cable	2km / Reel	
2103-02441	Light-LINKS™ 6 Core Unitube Armored OM2 Fiber Optic Cable	2km / Reel	
2103-02442	Light-LINKS™ 8 Core Unitube Armored OM2 Fiber Optic Cable	2km / Reel	
2103-02443	Light-LINKS™ 12 Core Unitube Armored OM2 Fiber Optic Cable	2km / Reel	

Technical Specifications

Construction		Technical Data-Mechanical		
Exterior Jacket		**Max. Loading (IEC794-1)**	2-12C	14-24C
Jacket Material	HDPE	**Installation**	1500 N	3000 N
Jacket Average Thickness	Average 2.2 mm	**Operation**	600 N	1000 N
Cable Reinforcement (Armor)	Corrugated Steel Tape	**Crush Resistance (IEC794-1)**		
Fiber Size	50 / 125 micron	**Installation**	300 N / 100mm	
		Operation	1000 N / 100mm	
Buffer Diameters		**Max. Bend Radius (IEC794-1)**		
Primary Buffer	250μm ± 50μm	**Installation**	20 x Diameter	
		Operation	10x Diameter	
		Temperature Rating Operation		
		Installation	-40°C to +70°C	
		Operation	-40°C to +70°C	

Cable Dimensions								
Fiber Count		2 ~ 12 Cores			|	14 ~ 24 Cores		
Cable Diameter & Weight		Approx. 8.7 mm			|	Approx. 12 mm		
		Approx.82 kg/km			|	Approx.147 kg/km		
Strength Member	Material	Steel Wire						
	Numbers	2						
	Diameter		1.2 mm		|		1.6mm	
Loose Tube	Material	PBT						
	Diameter		nom:2.6mm		|		nom:3.8mm	
Armor	Material	CTSA (Corrugated Steel tape)						
Sheath	Material	HDPE						
	Thickness	Average 2.2 mm						

Technical Data-Transmission

Fiber type	Attenuation				OFL bandwidth	Effective modal bandwidth	10 Gigabit Ethernet SX	Min bend radius
Conditions	1310/1550nm		850/1300nm		850/1300nm	850nm	850nm	/
	Typical	Maximum	Typical	Maximum				
Unit	dB/km	dB/km	dB/km	dB/km	Mhz/Km	Mhz/Km	m	mm
G652D	0.36 / 0.22	0.5 / 0.4	---	---	---	---	---	16
G657A1	0.36 / 0.22	0.5 / 0.4	---	---	---	---	---	10
G657A2	0.36 / 0.22	0.5 / 0.4	---	---	---	---	---	7.5
50/125	---	---	3.0 / 1.0	**3.5 / 1.5**	≥500 / 500	---	---	30
62.5/125	---	---	3.3 / 1.0	3.5 / 1.5	≥200 / 600	---	---	30
OM3	---	---	3.0 / 1.0	3.5 / 1.5	≥1500 / 500	≥2000	≤300	30
OM4	---	---	3.5 / 1.1	3.5 / 1.5	≥3500 / 500	≥4700	≤550	30
BI-OM3	---	---	3.0 / 1.0	3.5 / 1.5	≥1500 / 500	≥2000	≤550	7,5
BI-OM4	---	---	3.5 / 1.1	3.5 / 1.5	≥3500 / 500	≥4700	≤550	7,5

Color Arrangement

Fiber Colors

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	**Gray**	White
No.	**7**	**8**	**9**	**10**	**11**	**12**
Color	Red	Black	Yellow	Violet	Pink	Aqua

The second set of 12 fibers with black rings is separated from the first set of 12.

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