

# OPENETICS

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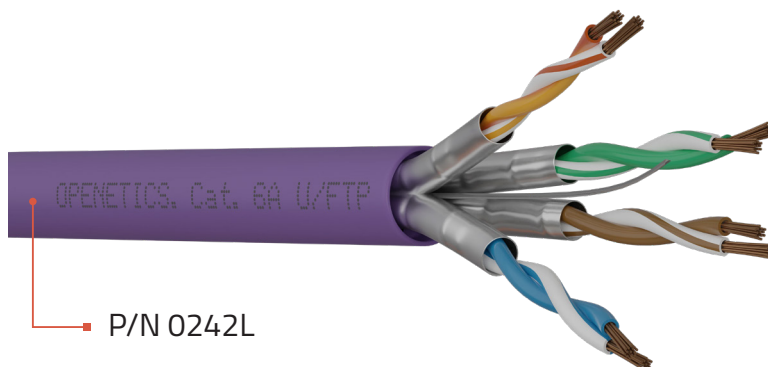
S.C.E Cat. 6A

Technical Specifications

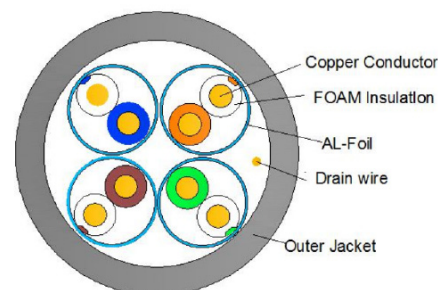
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## Cat. 6A U/FTP LSZH Flexible Cable



P/N 0242L



### Description

Shielded copper cable consisting of 4 twisted pairs. Intended for voice and data transmission in local area networks (LAN), mainly for horizontal cabling. Supports frequencies up to 500 MHz and speeds up to 10 Gbps.

### Applications

Supports all current LAN applications, including:

- 100 BaseT4
- 100 BaseTX
- 100 VG-AnyLAN
- 1000 Base-T
- 1000 Base-TX
- 155 Mbps ATM
- 622 Mbps ATM
- 10G BASE-T

### Regulations

- ISO/IEC 11801 2nd Edition
- ANSI/TIA/EIA 568-B2
- CENELEC EN50288-3, EN50173:2002, EN50167, EN50169
- RoHS Directive 2002/95/EC
- Flammability Test IEC 60332-1

### Benefits and Features

- Meets and exceeds Cat. 6A specifications set by the standard.
- High protection against electromagnetic interference.
- Low delay propagation.
- High ACR values and minimal speed error.
- Quick identification and easy installation.
- High quality and cable design.
- Available in 500 m rolls.

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## Cat. 6A U/FTP LSZH Flexible Cable

Physical and Mechanical Specifications			
Structure	■ Construction:	U/FTP	
	■ Number of pairs:	4 pairs	
Driver	■ AWG	26 AWG	
	■ Conductor material:	braided copper	
	■ Conductor dimensions:	7/0.16± 0.02 mm	
Insulation	■ Insulation material:	HDPE	
	■ Insulation dimensions:	1.01 ± 0.05 mm	
	■ Color code:	1. Blue & Blue and White	3. Green & green and white
		2. Orange & orange and white	4. Brown & brown and white
Outer cover	■ Type of cover:	Halogen-free flame retardant (LSZH)	
	■ Cover thickness:	0.5 mm.	
	■ Total nominal dimension:	5.8 ± 0.3 mm.	
	■ Cover color:	gray (available in lilac, green, and yellow)	
Mechanical characteristics	■ Operating temperature:	-30°C to 75°C	
	■ Radius of curvature:	60 mm.	
	■ Nominal weight:	36 kg/km	
	■ Max. tensile strength:	110N	
	■ Stretching the outer cover:	≤ 100%	
	■ Aging test:	100°C x 168 hours	
	■ Traction force after the test aging:	≤ 70%	
	■ Stretching after the test aging:	≤ 50%	
	■ Cold test:	No breakage (@ 20°C x 4 hours)	

Electrical Specifications		
Electrical characteristics	■ Nominal mutual capacity:	≤ 5.6 nF/100m (@ 1Khz)
	■ Imbalance of capabilities grounded:	≤1600 pF/km
	■ Delay:	Max. 45ns/100m
	■ Nominal propagation speed:	65%
	■ Conductor resistance:	Max. 145°C (@ 20°C)
	■ Insulation resistance:	Max. 5000 m/km
	■ Resistance imbalance:	Max. 5% (@ 20°C)
	■ Operating voltage:	Max. 300 V
	■ Unbalance capacity:	Max. 1600 pF/100m

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Cat. 6A U/FTP LSZH Flexible Cable

Commercial Information						
P/N	Cable Category	Cable Type	No peers	Type of Cover	U/Emb.	Length (m)
0242	Cat. 6A	Flexible U/FTP	4	LSZH (gray)	coils	500 m.
0242/A	Cat. 6A	Flexible U/FTP	4	LSZH (blue)	coils	500 m.
0242/L	Cat. 6A	Flexible U/FTP	4	LSZH (purple)	coils	500 m.
0242/R	Cat. 6A	Flexible U/FTP	4	LSZH (red)	coils	500 m.
0242/V	Cat. 6A	Flexible U/FTP	4	LSZH (green)	coils	500 m.
0242/Y	Cat. 6A	Flexible U/FTP	4	LSZH (yellow)	coils	500 m.

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