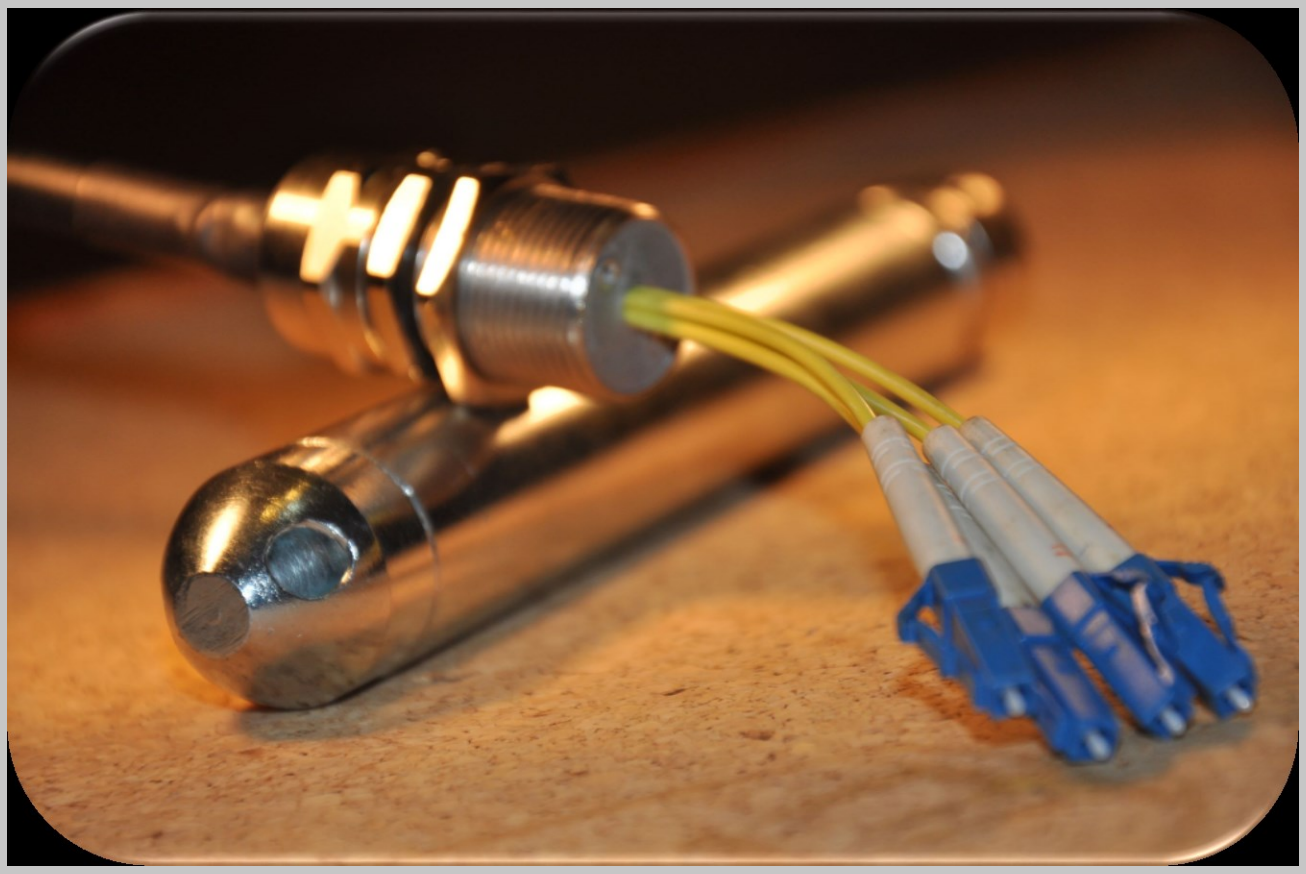
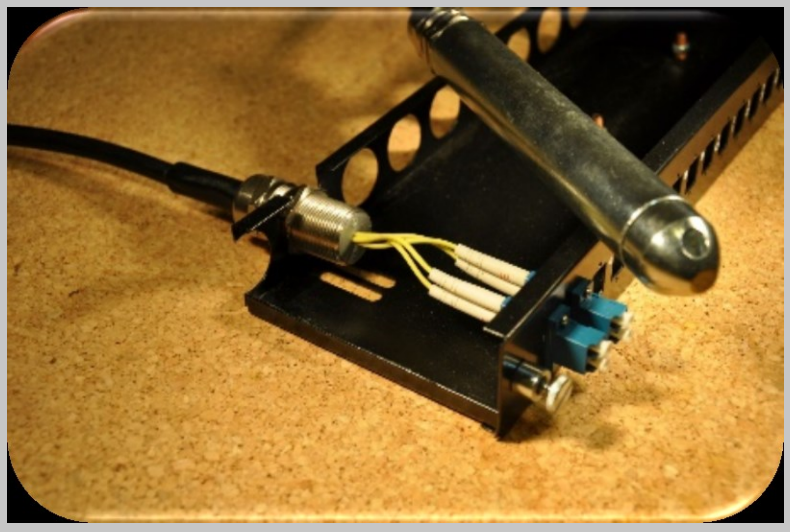
PRODUCT DATASHEET

Pro-Terminated Armoured LC-LC Fiber Optical Cable





Pro-Terminated Hazır Fiber Optik Kablo; Bu Kablo 4 adet LC sonlandırılmış uca sahip, özel korumalı çekme aparatı olan ve en zorlu şartlara dayanıklı çek-kullan kablomuzdur. Patentli tasarımı sayesinde uçlar zarar görmeden kablo çekimi yapılır ve çekim sonrasında koruyucu uç çıkarılarak aktif cihaz bağlantısı yapılır.

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Fiber Optical cable Specifications(may vary per used brand)

4 Lc fibers armored outdoor fiber optic cable,Thixotropic jelly filled

- loose tube,
- Central loose tube design,
- Swellable glass yarn as strength elements,
- Outer jacket is made of medium density polyethylene,
- Ripcord is inserted for easy jackets removal.

Fiber Type	SM G652 D, G657 A1, G657 A2, G655 MM 62.5 OM1, 50/125 OM2, 50/125 OM3, 50/125 OM4
Tube material	PBT (Polybutylene Terephthalate)
Color of loose tube	Natural
Tube filling compound	Thixotropic jelly
Strength elements	Swellable glass yarns
Ripcord	Aramid cord
Identification tape marking	As a customer request
Armor	Corrugated steel tape
Outer jacket	Black MDPE, thickness nominal 1.5±0.1 mm.
Surface marking	As a customer request

Mechanical and Environmental Properties		
Physical tests	**Value**	**Standard**
Tensile Strength	1000 N	IEC 60794-1-E1
Impact Resistance	10J, 3 impacts	IEC 60794-1-E4
Crush Resistance	220 N/cm	IEC 60794-1-E3
Bend Radius (during installation)	30x cable diameter	IEC 60794-1-E11
Bend Radius (during Service)	15x cable diameter	IEC 60794-1-E11
Operation Temperature	-30 to +70 □C	IEC 60794-1-F1
Reel Marking	As a customer request	
Metal Plate at drum	As a customer request	

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Pro-Terminated Armoured LC-LC Fiber Optical Cable

STANDARD SM FIBER ITU-T G 652 D	
PROPERTIES	**SPECIFIED VALUES**
Attenuation (max)	0.40 dB/km (1310 nm) 0.25 dB/km (1550 nm)
MFD	9.2±0.4 µm (1310 nm) 10.4±0.5 µm (1550 nm)
Chromatic Dispersion (max)	3.5 ps/(nmxkm)(1310 nm) 18 ps/(nmxkm)(1550 nm)
Cladding diameter	125±0.3µm
Core/Clad Concentricity error	≤ 0.5 µm
Zero dispersion wavelength	1300nm≤ ≤1324nm
Cladding non-circularity	≤ 0.7 %
Coating diameter	245±10 µm
Cut Off Wavelength	≤1260nm
Proof Test	≥ 1% (100kpsi or 0.7GPa)

NON-ZERO DISPERSION SHIFTED SM FIBER ITU-T G 655	
PROPERTIES	SPECIFIED VALUES
Attenuation (max)	0.25 dB/km (1550 nm)
MFD	9.6±0.4 µm (1550 nm)
Chromatic Dispersion at 1530-1565 nm	2.0-6.0 ps/(nmxkm)
Chromatic Dispersion at 1565-1625 nm	4.0-12.0 ps/(nmxkm)
Cladding diameter	125±0.7µm
Core/Clad Concentricity error (max)	0.6 µm
Cladding non-circularity (max)	% 0.7
Coating diameter	245±5 µm
Cut Off Wavelength	≤1450nm
Proof Test	≥ 1% (100kpsi or 0.7GPa)

STANDARD SM FIBER ITU-T G 657 A	
PROPERTIES	**SPECIFIED VALUES**
Attenuation (max)	0.40 dB/km (1310 nm) 0.25 dB/km (1550 nm)
MFD	9.0±0.4 µm (1310 nm) 10.1±0.5 µm (1550 nm)
Cladding diameter	125±0.7µm
Core/Clad Concentricity error (max)	0.5 µm

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Pro-Terminated Armoured LC-LC Fiber Optical Cable

Zero dispersion wavelength	1300nm≤ ≤1324nm
Cladding non-circularity (max)	% 0.7
Coating diameter	242±7 µm
Cut Off Wavelength	≤1260nm
Proof Tensile Test	≥ 1% (100kpsi or 0.7GPa)
Macro bending Attenuation : (10 turn on a 15 mm radius mandrel)	≤ 0.25 dB @1550 nm
SM FIBER ITU-T G 657 A2 Bend İnsensitive	
PROPERTIES	**SPECIFIED VALUES**
Attenuation (max)	0.35 dB/km (1310 nm) 0.22 dB/km (1550 nm)
MFD	8.6±0.4 µm (1310 nm)
Cladding diameter	125±0.7µm
Core/Clad Concentricity error (max)	0.5 µm
Zero dispersion wavelength	1302nm≤ ≤1322nm
Cladding non-circularity (max)	% 1
Coating diameter	240±5 µm
Cut Off Wavelength	≤1260nm
Proof Tensile Test	≥ 1% (100kpsi or 0.7GPa)
Macro bending Attenuation : (1 turn on a 7.5 mm radius mandrel)	≤ 0.5 dB @1550 nm
62.5/125 µm MM OM1 OPTICAL FIBER	
PROPERTIES	SPECIFIED VALUES
Attenuations (max)	3.5 dB/km (850 nm) 1.5 dB/km (1300 nm)
Bandwidth (min)	200 MHz.km(850 nm) 600 MHz.km(1300 nm)
Numerical Aparature	0.275±0.015
Core Diameter	62.5 ±2 µm
Cladding Diameter	125 ±1µm
Core/Clad Concentricity error	≤ 1 µm
Cladding non-circularity	≤ 0.7 %
Coating Diameter	242 ±5 µm
Proof Test	≥ 100kpsi or 0.7GPa

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Pro-Terminated Armoured LC-LC Fiber Optical Cable

50/125 µm MM OM2 OPTICAL FIBER	
PROPERTIES	SPECIFIED VALUES
Attenuations (max)	3.5 dB/km (850 nm) 1.5 dB/km (1300 nm)
Bandwidth (min)	700 MHz.km(850 nm) 500 MHz.km(1300 nm)
Numerical Aparature	0.200±0.015
Core Diameter	50±2 µm
Cladding Diameter	125±1µm
Core/Clad Concentricity error	≤ 1 µm
Cladding non-circularity	≤ 0.7 %
Coating Diameter	242 ±5 µm
Proof Test	≥ 100kpsi or 0.7GPa
50/125 µm MM OM3 OPTICAL FIBER	
PROPERTIES	SPECIFIED VALUES
Attenuations (max)	3.5 dB/km (850 nm) 1.5 dB/km (1300 nm)
Bandwidth (Laser EMB)	2000 MHz.km(850 nm) 500 MHz.km(1300 nm)
Bandwidth (Overfilled)	1500 MHz.km(850 nm) 500 MHz.km(1300 nm)
Numerical Aparature	0.200±0.015
Core Diameter	50±2 µm
Cladding Diameter	125±1µm
Core/Clad Concentricity error	≤ 1 µm
Cladding non-circularity	≤ 0.7 %
Coating Diameter	242 ±5 µm
Proof Test	≥ 100kpsi or 0.7GPa

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Pro-Terminated Armoured LC-LC Fiber Optical Cable

50/125 µm MM OM4 OPTICAL FIBER	
PROPERTIES	SPECIFIED VALUES
Attenuations (max)	3.0 dB/km 1.0 dB/km
Bandwidth (Laser EMB)	4700 MHz.km(850 nm) 500 MHz.km(1300 nm)
Bandwidth (Overfilled)	3500 MHz.km(850 nm) 500 MHz.km(1300 nm)
Numerical Aparature	0.2±0.015
Core Diameter	50±3 µm
Cladding Diameter	125±3µm
Core/Clad Concentricity error	≤ 1 µm
Cladding non-circularity	≤ 0.7 %
Coating Diameter	242 ±5 µm
Proof Test	≥ 100kpsi or 0.7GPa