



LadonX™ Ribbon LSOH Jacket Duct Cable

LSOH OUTER SHEATH, APL TAPE (144/192/288/384/432/576F)

Flame Resistant

IEC 60332

IEC 61034

Design Reference

IEC 60794-1-1

IEC 60794-1-21

IEC 60794-1-22

IEC 60794-3

IEC 60794-3-10

IEC 60794-3-11

ITU-T G.657

Application

Applicable to duct installation

Working Conditions

Storage Temperature

-40°C ~ +70°C

Installation Temperature:

-10°C ~ +60°C

Operation Temperature

-40°C ~ +70°C

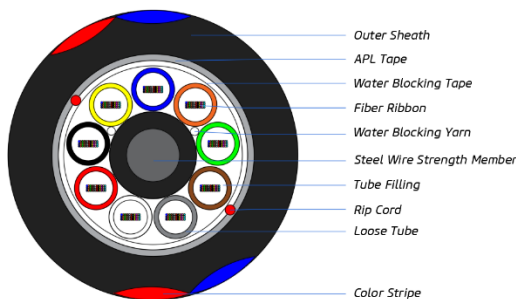
Min. Allowable Bending Radius

Static: > 10 D

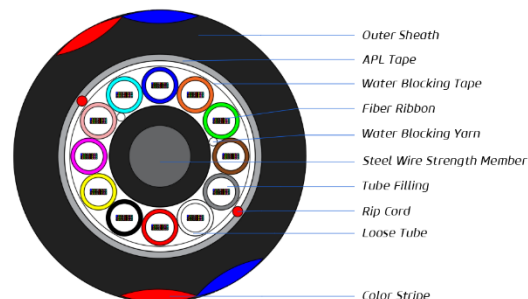
Dynamic: > 20 D

D is the out diameter of the cable

432F



576F

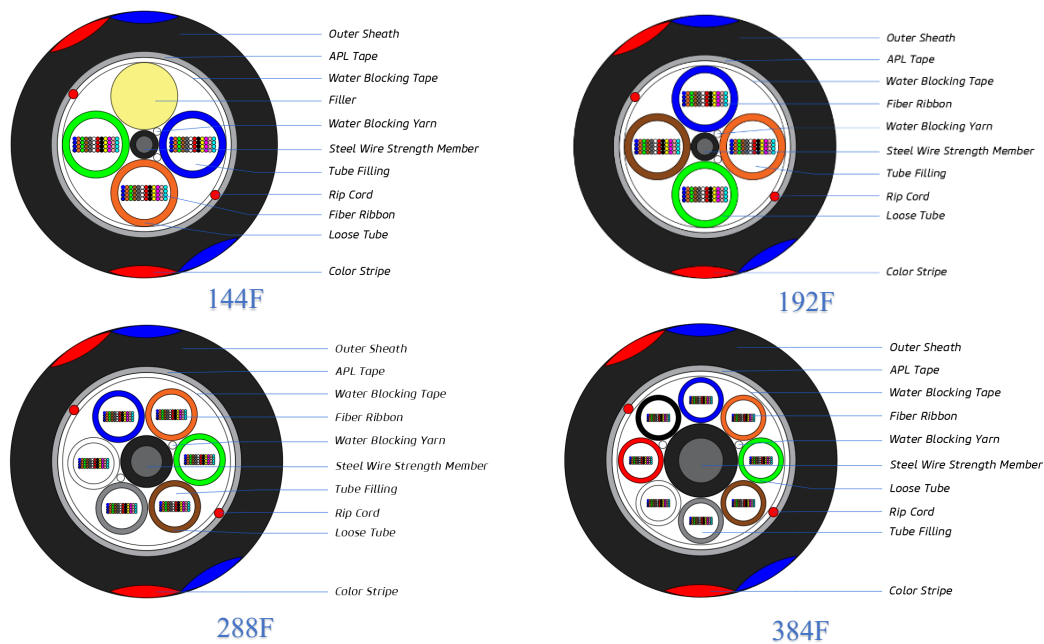


Technical data

Number of Fibers	144/192/288/384/432/576	
Fiber Type	G657A1	
Central Strength Member	Steel wire+PE layer	
Steel Wire Diameter (Nom.)	mm	1.7/1.7/2.0/2.5/2.5/2.0
PE Layer Diameter (Nom.)	mm	2.3/2.3/5.0/8.1/9.8/6.4
Loose Tube Diameter (Nom.)	mm	4.9/4.9/4.9/4.9/4.9/6.2
No. of Loose Tube	3/4/6/8/9/12	
Fiber Ribbon Per Tube	4*12F	
Number of Fillers	1/0/0/0/0/0	
Armor	APL	
Thickness of Armor (Nom.)	mm	0.2
Water Barrier	Water blocking yarn & tape	
Outer Sheath	Black LSOH	
Thickness of Outer Sheath (Nom.)	mm	2.0
Stripe Color	Red (RAL3020) + Blue (RAL5015)	
No. of Color Stripe	2+2	
No. of Rip Cord	2	
Overall Diameter (Nom.)	mm	18.2/18.2/21/24.2/26/24.6
Weight Approx.	kg/km	340/340/470/565/630/510



Cross Section of Cable



Optic Fiber

Optic Fibers supplied in this specification meet the requirements of ITU-T G657A1

Parameter	Specification
MFD (1310nm)	$8.8 \pm 0.4 \mu\text{m}$
Cladding diameter	$125 \pm 0.7 \mu\text{m}$
Fiber diameter	235~255 μm , with UV coating, and colored to : $250 \pm 15 \mu\text{m}$
Core/ cladding concentricity error	$\leq 0.5 \mu\text{m}$
Coating/cladding concentricity error	$\leq 12.0 \mu\text{m}$
Cladding non- circularity	$\leq 1.0\%$
Cut- off wavelength	$\lambda_{cc} \leq 1260 \text{nm}$
Attenuation Coefficient	1310nm: 0.34dB/km max after cabling 1550nm: 0.20dB/km max after cabling
Bending-loss performance of optical fiber (10 turns around amandrel of 30mm diameter)	$\leq 0.25 \text{dB}$ at 1550nm; $\leq 1.0 \text{dB}$ at 1625nm;
Polarization mode dispersion individual fiber	$0.2 \text{ps}/\sqrt{\text{km}}$
Polarization mode dispersion design link value (M=20, Q=0.01%)	$0.1 \text{ps}/\sqrt{\text{km}}$
Zero-Dispersion Wavelength	1300~1324nm
Zero Dispersion Slope	$\leq 0.092 \text{ps}/\text{nm}^2 \cdot \text{km}$



Fiber Ribbon Chromatogram

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

Loose Tube Chromatogram

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

Mechanical Property

No.	Mechanical Specification	Unit	Designed Value
1	Max. tensile strength	N	2700
2	Crush resistance	N/100mm	1500

Sheath Marking

The outer sheath is marked in 1meter intervals as follows

HERMESYS LADONX RIBBON LSOH DUCT CABLE XXXF G657A1 WW YYYY XXXXM

Shipping Information

Packing Method

Wooden Drum with proper protection

Delivery Length

2/3 km per drum

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