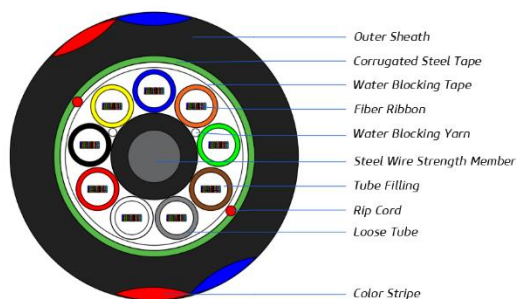




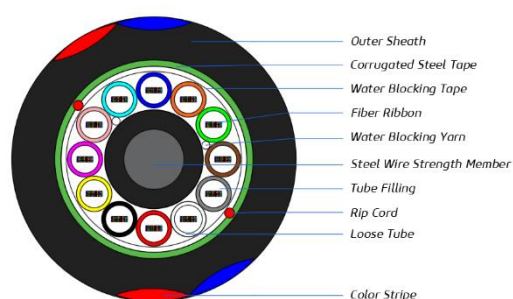
LadonX™ Ribbon LSOH Jacket Duct Cable

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

432F



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

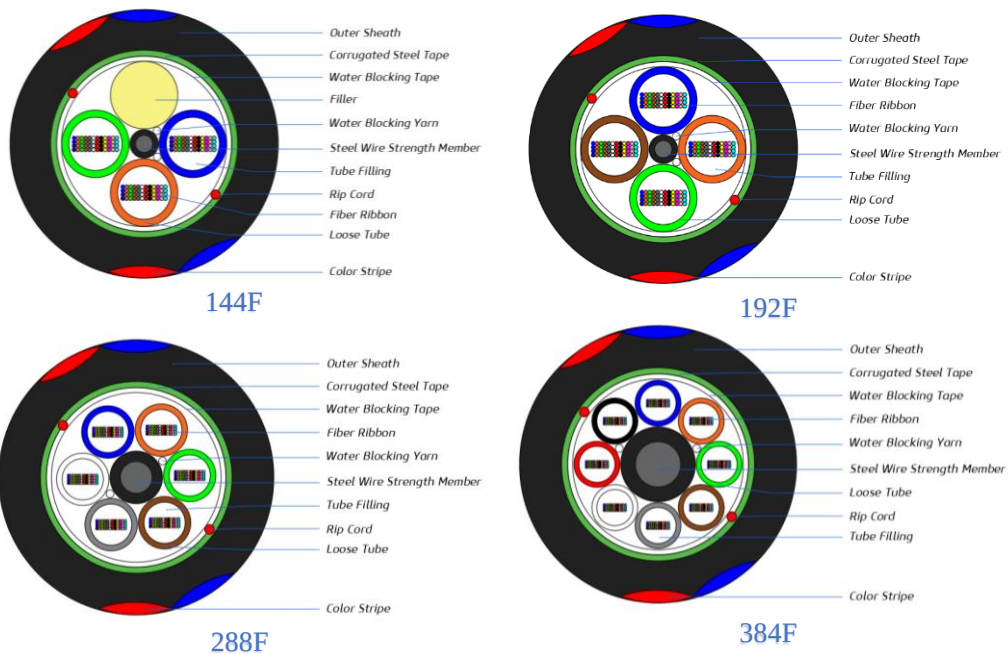
D is the out diameter of the cable

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	Corrugated Steel Tape	
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±0.4 μm
Cladding diameter	125+/- 0.7μm
Fiber diameter	235~255μm, with UV coating, and colored to : 250±15μm
Core/ cladding concentricity error	≤ 0.5μm
Coating/cladding concentricity error	≤ 12.0μm
Cladding non- circularity	≤ 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)	≤ 0.25dB at 1550nm; ≤ 1.0dB at 1625nm;
Polarization mode dispersion individual fiber	0.2ps/√km
Polarization mode dispersion design link value (M=20, Q=0.01%)	0.1ps/√km
Zero-Dispersion Wavelength	1300~1324nm
Zero Dispersion Slope	≤0.092ps/nm ² ·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

Info@hermesys.com
Phone +65 66921168
42 Emerald Hill Road, Singapore



Hermesys 2015, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Hermesys: any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Hermesys. The information is believed to be correct at the time of issue. Hermesys reserves the right to amend this specification without prior notice.

www.hermesys.com