



LadonX™ 12F Double LSOH Jacket With Steel Tape And AT&AR Additive Cable

Fully dry design tight buffer 900μm fiber

Flame Resistant

IEC60332-1

Design Reference

ITU-T G.652.D

ITU-T OM3

IEC 60794-1-21-E1

IEC 60794-1-21-E3/E4

IEC 60794-1-21-E6/E7

IEC 60794-1-21-E11

IEC 60794-1-22-F1

RoHS

Working Condition

Storage Temperature

-20°C ~ +70°C

Installation Temperature:

-10°C ~ +60°C

Operation Temperature

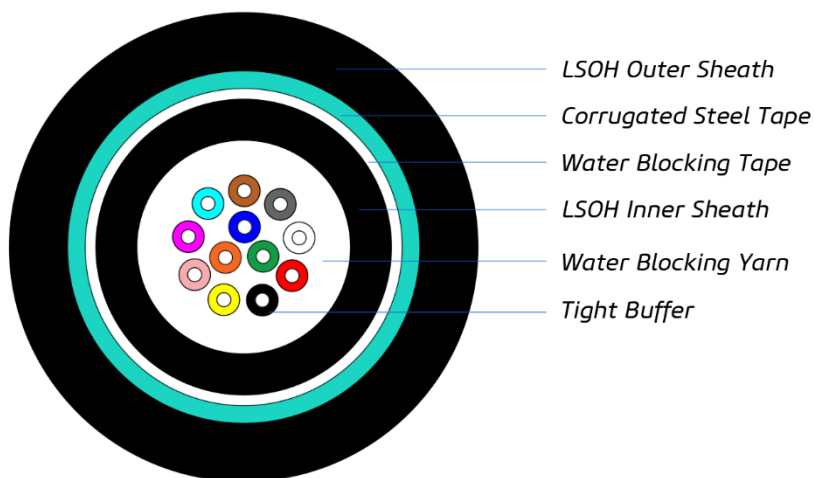
-20°C ~ +70°C

Min. Allowable Bending Radius

Static: > 10 D

Dynamic: > 20 D

D is the out diameter of the cable



Technical data

Fiber	G652D/ OM3	
Number of Fiber	12	
Tube structure	0.9 m tight buffer	
Water blocking materials	Water blocking yarn + water blocking tape	
Moisture resistance	Corrugated steel tape	
Thickness of Steel tape (Nom.)	mm	0.2
Inner Sheath	Black LSOH	
Outer Sheath	Black LSOH with AT & AR additives	
Overall Diameter(Nom)	mm	10.5



Fiber Color Code

1.BLUE	2.ORANGE
3.GREEN	4.BROWN
5.GREY	6.WHITE
7.RED	8.BLACK
9.YELLOW	10.PURPLE
11.PINK	12.AQUA

Mechanic Characteristics

Tension	IEC 60794-1-21-E1 Load: 500N Load time: 10min	Additional loss $\leq$ 0.1dB @ 1550nm No visual crack of cable sheath
Crush	IEC 60794-1-21-E3 Load: 1000N/100mm Load time: 10min	Additional loss $\leq$ 0.1dB @ 1550nm No visual crack of cable sheath
Impact	IEC 60794-1-21-E4 Impact energy: 1J Points of impact: 3 Times per point: 1	Additional loss $\leq$ 0.1dB @ 1550nm No visual crack of cable sheath
Bend	IEC 60794-1-21-E11 Bending radius: 20D Turns: 5 Cycles: 3	Additional loss $\leq$ 0.1dB @ 1550nm No visual crack of cable sheath
Repeated Bending	IEC 60794-1-21-E6 Bending radius: 20D Load: 250N Cycles: 20	Additional loss $\leq$ 0.1dB @ 1550nm No visual crack of cable sheath
Torsion	IEC 60794-1-21-E7 Length: 1m Load: 250N Twist angle: $\pm 90^\circ$ Cycles: 10	Additional loss $\leq$ 0.1dB @ 1550nm No visual crack of cable sheath
Temperature cycling	IEC 60794-1-22-F1 Temperature range: -40~+80°C Cycles: 2	Additional loss $\leq$ 0.1dB @ 1550nm

Sheath Marking

The outer sheath is marked in 1meter intervals as follows

HERMESYS LADONX DOUBLE LSOH JACKET WITH STEEL TAPE AND AT&AR CABLE 12F WYYYYY XXXXM



Fiber Characteristics

ITU-T G.652D

Parameter	Specification
MFD (1310nm)	8.6~9.5 μm
Cladding diameter	125 $\pm$ 0.7 μm
Coating diameter	245 $\pm$ 10 μm
Core/cladding concentricity error	$\leq$ 0.6 μm
Coating/cladding concentricity error	$\leq$ 12.5 μm
Cladding non circularity	$\leq$ 1.0%
Cut off wavelength	$\lambda_{\text{cc}} \leq 1260\text{nm}$
Attenuation coefficient	1310nm: 0.36dB/km max after cabling 1550nm: 0.22dB/km max after cabling
Macro-bending loss @1625nm	$\leq$ 0.1dB (100 turns $\times$ 30mm radius)

ITU-T OM3

Parameter	Specification
Cladding diameter	125 $\pm$ 1.0 μm
Coating diameter	245 $\pm$ 10 μm
Core/cladding concentricity error	$\leq$ 2 μm
Coating/cladding concentricity error	$\leq$ 12.5 μm
Cladding non circularity	$\leq$ 1.0%
Core non-circularity	$\leq$ 6%
Attenuation coefficient	850nm: 2.5dB/km max after cabling 1300nm: 0.8dB/km max after cabling
Macro-bending loss @850nm / 1300nm	$\leq$ 0.5dB (100 turns $\times$ 37.5mm radius)

Shipping Information

Packing Method

Wooden Drum with Protection

Delivery Length

Standard Delivery Length is 2km with a tolerance of $\pm$ 3%



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