



Design Reference

IEC 60794

Application

Structured Cabling System

Indoor&Outdoor

FTTx

Working Condition

Storage Temperature

-40°C ~ +70°C

Installation Temperature:

-20°C ~ +60°C

Operation Temperature

-40°C ~ +70°C

Min. Allowable Bending Radius

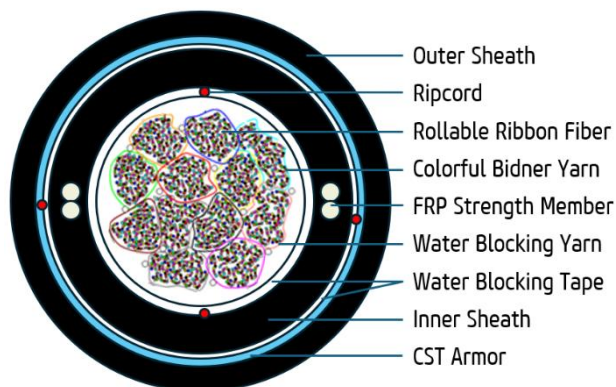
Static: > 15 D

Dynamic: > 25 D

D is the out diameter of the cable

LadonX™ Fiber Optic Cable Rollable Ribbon

Ribbon-12F/Jelly-free/FRP/CST/PE



Technical data

Fiber Count		1152	1728	2880	3456
Fiber Count per Ribbon				12F	
Fiber Category				250um	
Ribbon Count		96	144	240	288
Ribbon OD (Approx.)	mm			3.1*0.28	
Ribbon Count per Binder				12	
Strength Member Material				FRP	
Water Blocking				Water Blocking Yarn & Water Blocking Tape	
Ripcord				4	
Inner Sheath Material				LSOH	
Inner Sheath Color				Black	
Armor Material				Corrugated Steel Tape	
Outer Sheath Material				PE	
Outer Sheath Color				Black	
Cable OD (Approx.)	mm	24.3	28.0	35.5	38.1
Cable weight (Approx.)	kg/km	470	600	930	1050

Mechanic Performance

Tensile Performance(N)	Short Term	2700
	Long Term	810
Crush(N/100mm)	Short Term	2200
	Long Term	660



Mechanical Characteristics

Test	Standard	Value	Sanction*
Tensile Performance	IEC 60794-1-21-E1	2700N Sample length: ≥50m. Duration time: 1min.	Additional loss SM≤0.15dB @1550nm Fiber strain ≤0.6% No visual crack of cable sheath
Crush	IEC 60794-1-21-E3	2200N/100mm Duration of load: 1min	Additional loss SM≤0.10dB @1550nm No visual crack of cable sheath
Impact	IEC 60794-1-21-E4	4.4 J with striking surface radius of 300 mm Impact number: 1 Impact points: 3 (Not less than 1m apart)	Additional loss SM≤0.10dB @1550nm No visual crack of cable sheath
Repeated Bending	IEC 60794-1-21-E6	Bending radius: 25*D Cycles: 25 Load: 150N	Additional loss SM≤0.10dB @1550nm o visual crack of cable sheath
Torsion	IEC 60794-1-21-E7	Cycles:10 Turns: ±90° Load:150N	Additional loss SM≤0.10dB @1550nm No visual crack of cable sheath
Temperature Cycling	IEC 60794-1-22-F1	-40°C ~ +70°C Cycles: 2 Dwell time: 12 hours	Variation in attenuation coefficient SM≤0.15dB/km @1550nm
Water Penetration	IEC 60794-1-22-F5B	Time : 24 hours Sample length : 3m Water height : 1m	No water leakage, only for the cable core with inner sheath

Identification

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

*From Binder 13-24, with white stripe, white color with black stripe, black color with yellow stripe.

Ribbon Number	Symbol	Ribbon Number	Symbol	Ribbon Number	Symbol
Ribbon 1	I	Ribbon 5	■	Ribbon 9	■ ■ ■ ■
Ribbon 2	II	Ribbon 6	■ I	Ribbon 10	■ ■ ■
Ribbon 3	III	Ribbon 7	■ II	Ribbon 11	■ ■ ■ I
Ribbon 4	IIII	Ribbon 8	■ III	Ribbon 12	■ ■ ■ II



Ordering Information

Product Part Number	Product Description
20xyy2(0)512R12P0AS	Hermesys LadonX™ Fiber Optic Cable Rollable Ribbon <x-fiber type> <yy-fiber count>core Ribbon-12/Jelly-free/FRP/CST/LSOH Black

Sheath Marking

Color: white

Interval: 1+1%/m

The outer sheath is marked in 1meter intervals as follows

HERMESYS LADONX FIBER OPTIC CABLE ROLLABLE RIBBON ARMOURED <Part Number> SM <Type> <Fiber Count> FIBER RIBBON-12 LSOH <WWYYYY> <Drum ID> <XXXX>M

<Part Number> indicates product P/N

<Type> indicates G.657A2 / G.657A1

<Fiber Count> indicates 1152 to 3456

<WWYYYY> indicates week/year

<Drum ID> indicates each drum number, rule refer to Drum ID formula file

<XXXX> indicates meter

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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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.

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