

# LadonX™ ADSS Aerial Cable

*Loose Tube, Double Jacket Non Metallic Cables*

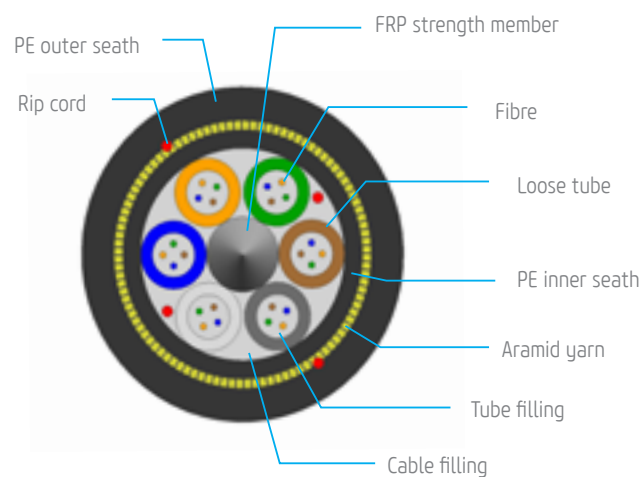


**Part number:**  
20XY0(0)0414-100

Hermesys LadonX™ All-Dielectric Self-Supporting cables are designed for easy and fast single pass installation.

The light weight construction is ideal for using along utility poles for cable television, telecom or other outside plant campus backbone applications without the need for cable lashing or grounding or where metallic cable can not be used. The cable is suitable for power lines under 110kV.

The standard span length is 100m and customized span length can up to 400m. Round cable design minimized wind and ice loading for reducing cable sag and tensile forces on towers and support hardware.



**Cross section of part number:**  
< Not to scale >

## Features and Benefits

Non metallic FRP central strength member is lighter and more flexible. No rust problem in the whole cable life.

PBTP loose tube filling with suitable water tightness compound to prevent the ingress of water.

Loose tubes S-Z stranded around the central strength member.

Aramid yarns strength elements for superior cable tensile strength and stability.

The Black PE jacket is suitable for outdoor use with high performance UV resistance.

## Standards

<b>Reference</b>	IEC 60794
	IEC 60793
	Telcordia GR-20-CORE

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## Specifications

### GENERAL SPECIFICATIONS

Environment	Outdoor
Application	Self-support Aerial, River crossing
Cable Type	Multi loose tube
Product Type	Telecom outside plant
Flame Rating	N/A
Fibre Category	Full range of fibre
Span Length	100m
Drum Length	4000m

### TEMPERATURE RANGE

Storage	-40°C to 70°C
Operation	-40°C to 70°C
Installation	-10°C to 60°C

### CABLE DESIGN

Fibre Count	24/48/96/144
Fibre Color	EIA/TIA 598 standard
Tensile Strength Elements	FRP non metallic strength member
Strength Member	Aramid Yarn
Number of Loose Tube	1-6 (max 12 Fibre per tube)
Inner Jacket Material & Colour	High density polyethylene, Black
Outer Jacket Material & Colour	High density polyethylene, Black

### MECHANICAL CHARACTERISTICS CABLE

Max. Tensile Strength, Short-term (N)	1500N
Crush Resistance, Short-term (N)	2200N
Max. Breaking Load	2500N (24f, 48f, 96f), 3000N (144f)
Nominal Outer Diameter (mm)	11.2 (24f, 48f), 13.8 (96f), 17.2 (144f)
Nominal Weight (kg/km)	100 (24f, 48f), 145 (96f), 245 (144f)
Min. Bend Radius Installation	20 * diameter
Min. Bend Radius Operation	10 * diameter

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## CHEMICAL CHARACTERISTICS

**ROHS**

Free of hazardous substances according to RoHS  
2002/95/EG

## *Fibre Specifications*

Refer the Hermesys fibre specification as per order

## *Ordering information*

**Part Number**

20XYY0(0)0414-100

**Sheath Marking**

Hermesys LadonX ADSS Double Jacket Non Metallic  
Cable 20XYY0(0)0414-100<Fibre Type> <XXXcore>  
WWYYYY

### Notes:

- 1) X = type of Fibre (0/G652D, 1/OM1, 2/OM2, 3/OM3, 4/OM4, 5/G655, 6/G657A1, 7/G657A2, 8/G657B1, 9/G657B2)
- 2) YY = Number of Core (2D/24 cores, 4H/48 cores)

## *Shipping information*

**Packaging Method**

Wooden drums with protection

**Delivery Lengths**

Standard delivery length is 4km with a tolerance of  $\pm 5\%$