

## LadonX™ ADSS Aerial Cable

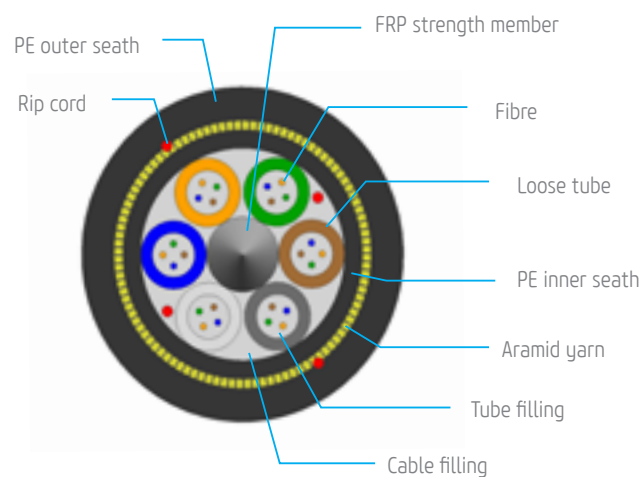
*Loose Tube, Double Jacket Non Metallic Cables*



Hermesys LadonX™ All-Dielectric Self-Supporting cables are designed for easy and fast single pass installation. The special span length design can achieve 200m.

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.

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

#### Reference

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    | 200m                                |
| 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) | 4500N   |
| Crush Resistance, Short-term (N)      | 2200N   |
| Max. Breaking Load                    | 7500N (24f, 48f), 10000N (96f), 15000N (144f) |
| Nominal Outer Diameter (mm)           | 11.4 (24f, 48f), 14.0 (96f), 17.8 (144f)      |
| Nominal Weight (kg/km)                | 105 (24f, 48f), 155 (96f), 260 (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)0414-200

**Sheath Marking**

Hermesys LadonX ADSS Double Jacket Non Metallic  
Cable 20XYY0(0)0414-200<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  $\pm 5\%$