

Concentric Core Loose Tube 24-144 Fibers – TOL 403 2003

ADSS GRHSLDV Dielectric.



Features

- Slim and low weight
- Dry construction
- Self-supporting
- Dielectric
- Halogen-free

Application

The GRHSLDV is an ADSS, non-metallic cable using concentric core design.

The cable utilizes aramid yarn as strength member.

This extremely slim and low weight cable is suitable for a maximum span length of 60-170 meters. It can be installed adjacent to power lines up to 120 kV.

The cable is part of our Aerial Cable System comprising cables, installation and network materials.



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Typical Data

Temperature range

Operation -40 till +70°C
 Storage -40 till +70°C
 Installation -15 till +50°C

Bending radius

Temporarily unloaded $\geq 10 \times$ cable dia
 Permanently (one turn)
 and during installation $\geq 15 \times$ cable dia

Tensile force

during installation ≤ 4.0 kN
 during operation ≤ 4.0 kN

Crush resistance ≤ 1500 N/10cm

Water penetration

in accordance with IEC 60794-1-22-F5C

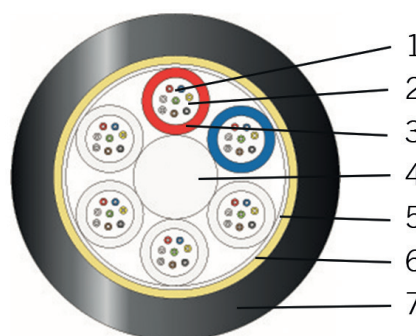
Delivery Information

Supplied lengths 2, 4, 6, or 8 km

Mechanical and environmental test in accordance with IEC 60794-1
 Fiber parameters and tests according to the
 IEC series 60793-2 and 60793-1

Design

1. Primary coated fiber Silica, acrylate
2. Filling compound Thixotropic gel
3. Loose tube PBT
4. Central strength member Glass fiber reinforced plastic
5. Water blocking Swellable tape
6. Strength member Aramid yarn
7. Sheath Polyethylene, (Black)



Ordering Information

ORDER NUMBER	NUMBER OF FIBERS	DIAMETER (MM)	WEIGHT (KG)
TOL 403 2003/24	24	11.5	100
TOL 403 2003/48	48	11.5	100
TOL 403 2003/96	96	15.4	160
TOL 403 2003/144	144	19.2	260

This ordering information covers standard types of the GRHSLDV cable.

The order number corresponds to a cable with standard single mode fibers colored according to standard Hexatronic color code (see product information “Standard Hexatronic fiber color code”).

Other combinations such as:

- Fiber types
- Fiber colors
- Total number of fibers

and specific technical information are available on request.

Suspension Accessories for TOL 403 2003 (Tested together with TOL 403 2003)

NUMBER OF FIBRES			PRODUCT NUMBER	COMMENT
Up to 48 fibers	Tension point	Helical dead end	NSF 151 8003/02	
		Thimble	NSF 151 8004/06	
	Suspension point	Suspension pulley with helical rods	NSF 151 8001/09	
	Vibration control	Vibration damper	NSF 151 8007/02	Optional
Up to 72 fibers	Tension point	Helical dead end	NSF 151 8003/01	
		Thimble	NSF 151 8004/01	
	Suspension point	Suspension pulley with helical rods	NSF 151 8001/03	
	Vibration control	Vibration damper	NSF 151 8007/03	Optional
Up to 96 fibers	Tension point	Helical dead end	NSF 151 8003/03	
		Thimble	NSF 151 8004/01	
	Suspension point	Suspension pulley with helical rods	NSF 151 8001/01	
	Vibration control	Vibration damper	NSF 151 8007/04	Optional
Up to 144 fibers	Tension point	Helical dead end	NSF 151 8003/04	
		Thimble	NSF 151 8004/03	
	Suspension point	Suspension pulley with helical rods	NSF 151 8001/07	
	Vibration control	Vibration damper	NSF 151 8007/06	Optional
	Intermediate link between dead end and pole mount.	Oval eye	NSF 151 8008	Optional, used if hook is too small to accommodate dead end/thimble.