

# ADSS Loose Tube Aerial Cable

GRHLGL 12-144 fibers G652D StdE 7.0-10.0 kN

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## Features

- Concentric core design
- 24-144 fibers
- Max span length 100-250 m
- Self-supporting
- Non-metallic

## Application

The cable is an ADSS, non-metallic cable using concentric core design. The cable is based on a loose tube cable but with a layer of aramid yarn as strength member covered with a second sheath enabling a robust cable design.

The cable is suitable for installation in rough climates with high ice-loads and max span length 100-250 m. There is a suitable cable (TOL 403 2008) for longer length.

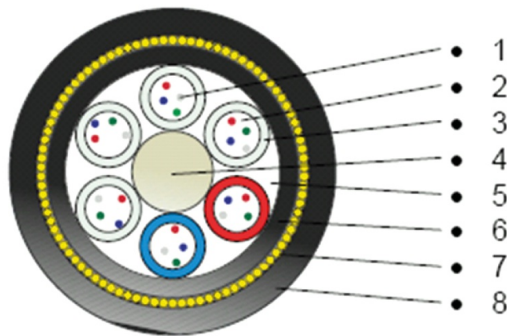
It can be installed adjacent to power lines up to 120 kV.

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

## Design

The cable is a dual sheathed non-metallic cable using concentric core design and aramide yarns as strength member between the sheaths.

## Product Information



- 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/yarns
- 6 Sheath: Polyethylene (black)
- 7 Strength member: Aramid yarns
- 8 Sheath: Polyethylene (black)

## Technical Information

<b>Product Color</b>	Black Sheath
<b>Color Code</b>	STDE

<b>Temperature, Operation [°C]</b>	-40 to +70
<b>Temperature, Storage [°C]</b>	-40 to +70
<b>Temperature, Installation [°C]</b>	-15 to +50
<b>Water Blocking</b>	Longitudinal water blocking according to IEC 60794-1-2-F5B
<b>Fiber Type</b>	G652D
<b>Attenuation @Wavelength [nm]</b>	1310/1550/1625
<b>Maximum Attenuation [dB/km]</b>	0.36/0.23/0.25
<b>Conformance</b>	<p>Longitudinal water blocking according to IEC 60794-1-2-F5B.</p> <p>Mechanical and environmental tests in accordance with IEC 60794-1.</p> <p>Fiber parameters and tests according to the IEC series 60793-2 and 60793-1.</p>
<b>Marking</b>	<p>Example of sheath marking, 1 time/meter:</p> <p>"HEXATRONIC A35 yymmddhh TOL4032002/96A GRHLGL-L-CDFNRV 96/T12 G652D STD 9 kN xxxx m"</p> <p>where yymmddhh = year, month, day and hour of manufacture, xxxx=running meter marking.</p>
<b>Installation Notes</b>	The cable can be installed adjacent to power lines up to 120 kV.
<b>Ordering Information</b>	Supplied lengths: 2, 4, 6 or 8 km

## Technical Details

Std:E Fibers	1	2	3	4	5	6	7	8	9	10	11	12
	Red	Blue	White	Green	Yellow	Grey	Brown	Black	Orange	Violet	Pink	Turquoise
	13	14	15	16	17	18	19	20	21	22	23	24
	Red	Blue	White	Green	Yellow	Grey	Brown	Clear	Orange	Violet	Pink	Turquoise
Std:E Tubes	1	2	3-6				7	8-16				
	Red	Blue	White				Blue	White				

StdE Color Code Chart

## Articles 6

Article name	Color	No. of Fibers	Layout	Tensile Force, Installation [N]	Crush [N/100 mm]	Diameter Ø [mm]	Weight [kg/km]	Length [m]
<b>GRH.LGL 12/T4 G652D STD</b> TOL4032002/12A	Black	12	1x12	—	1500	13.8	150	4000/K16
<b>GRH.LGL 24/T4 G652D STD</b> TOL4032002/24A	Black	24	6x4	7000	1500	13.8	150	4000/K16
<b>GRH.LGL 48/T8 G652D STD 8 kN-15.8mm</b> TOL4032002/48A	Black	48	6x8	8000	1500	14	150	8000/K20, 6000/K18, 4000/K16
<b>GRH.SLLDV 72 G652D, 8 kN-15,5 mm</b> TOL4032002/72A	Black	72	6x12	—	1500	15.5	190	4000/K18
<b>GRH.LGL 96/T12 G652D STD 9 kN-17.7mm</b> TOL4032002/96A	Black	96	8x12	9000	1500	17.7	220	6000/K22, 4000/K20, 2000/K14, 8000/K24
<b>GRH.SLLDV 144 G652D, 10 kN-22.1 mm</b> TOL4032002/144A	Black	144	12x12	10000	1500	22.1	345	4000/K24, 2000/K18, 6000/K26