



# ADSS Loose Tube Aerial Cable

GRHLGL 12-144 fibers G652D TIA598 14.5-18.0 kN

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## Features

- Concentric core design
- 12-144 fibers
- Max span length 200-500 m
- Self-supporting
- Non-metallic
- Double sheath design

## Application

The cable is an ADSS, non-metallic cable using concentric core design. The cable is based on the GRHLDV 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 200-500 m. There is a suitable cable (TOL 403 2002) for shorter length.

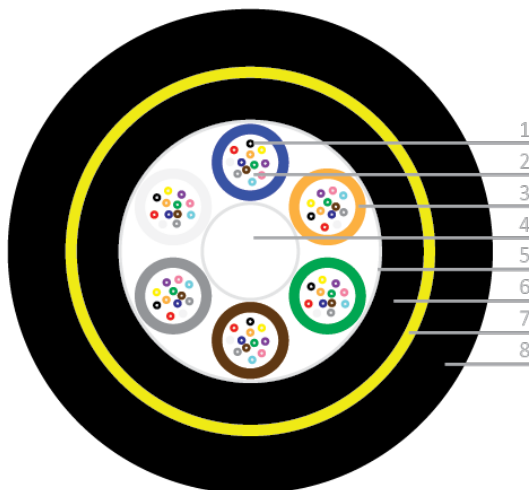
It can be installed adjacent to power lines up to 120 kV.

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 aramid 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 Inner sheath: Polyethylene (black)
- 7 Strength member: Aramid yarns
- 8 Outer sheath: Polyethylene (black)

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## Technical Information

<b>Product Color</b>	Black Sheath
<b>Color Code</b>	TIA598
<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>	Longitudinal water blocking according to IEC 60794-1-2-F5B. Mechanical and environmental tests in accordance with IEC 60794-1. Fiber parameters and tests according to the IEC series 60793-1 and 60793-2.
<b>Marking</b>	The sheath is marked every meter with the following as an example: "HEXATRONIC A35 yymmddhh TOL4032008/96C GRHLGL-L-CDFNRV 96/T12 G652D xxx m" where yymmddhh = year, month, day and hour of manufacture, xxx=running meter marking.
<b>Technical Notes</b>	Span lengths noted are a guide only and are subject to change based on installation sag and environment. Contact Hexatronic for specific recommendations around span lengths and tensile loads based on your installation environment. Suitable for installation adjacent to power lines up to 120 kV.
<b>Ordering Information</b>	Supplied lengths: 2, 4, 6 or 8 km

## Technical Details

TIA-598 Fibers and Tubes	1	2	3	4	5	6	7	8	9	10	11	12
	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua
TIA-598 Fibers and Tubes	13	14	15	16	17	18	19	20	21	22	23	24
Blue	Orange	Green	Brown	Slate	White	Red	Clear	Yellow	Violet	Rose	Aqua	

*TIA 598 Color Code Chart*

## Articles 7

Article name	Color	No. of Fibers	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Tensile Force, Operation [N]	Crush [N/100 mm]	Diameter Ø [mm]	Weight [kg/km]	Form of Delivery
<b>GRH.LGL 12/T4 G652D 250um TIA</b> TOL4032008/12C	Black	12	3x4	230	14500	14500	2500	15	160	2000/K12, 4000/K16, 6000/K22
<b>GRH.LGL 24/T4 G652D 250um TIA</b> TOL4032008/24C	Black	24	6x4	230	14500	14500	2500	15	160	2000/K12, 4000/K16, 6000/K22
<b>GRH.SLLDV 36/T6 G652D 250um TIA</b> TOL4032008/36C	Black	36	6x6	230	14500	14500	2500	15	170	2000/K12, 4000/K16, 6000/K22
<b>GRH.LGL 48/T8 G652D 250um TIA</b> TOL4032008/48C	Black	48	6x8	230	14500	14500	2500	15	170	2000/K12, 4000/K16, 6000/K22
<b>GRH.SLLDV 72/T12 G652D 250um TIA</b> TOL4032008/72C	Black	72	6x12	250	14500	14500	2500	16.5	210	4000/K20, 8000/K24
<b>GRH.LGL 96/T12 G652D 250um TIA</b> TOL4032008/96C	Black	96	8x12	290	16000	16000	2500	18.9	250	4000/K22, 8000/K24
<b>GRH.LGL 144/T12 G652D 250um TIA</b> TOL4032008/144C	Black	144	12x12	350	18000	18000	2500	23.0	370	4000/K24, 7300/K26