

ADSS Loose Tube Aerial Cable

GRHLGL 12-144 fibers G652D TIA598 7.0-10.0 kN

Features

- Concentric core design
- 12-144 fibers
- Max span length 100-250 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 a loose tube cable 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.

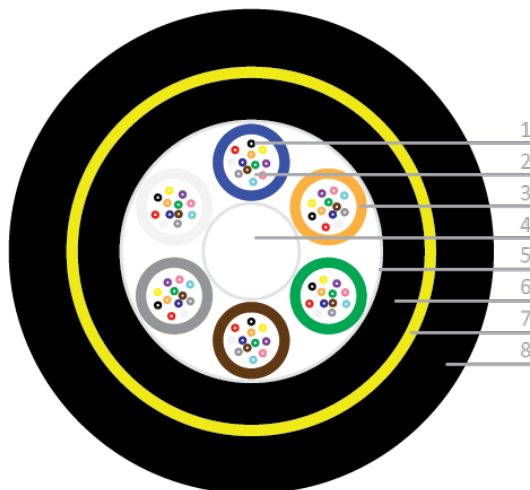
It can be installed adjacent to power lines up to 120 kV.

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

Product Color	Black Sheath
Color Code	TIA598
Temperature, Operation [°C]	-40 to +70
Temperature, Storage [°C]	-40 to +70
Temperature, Installation [°C]	-15 to +50
Water Blocking	Longitudinal water blocking according to IEC 60794-1-2-F5B
Fiber Type	G652D
Attenuation @Wavelength [nm]	1310/1550/1625
Maximum Attenuation [dB/km]	0.36/0.23/0.25
Conformance	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.
Marking	The sheath is marked every meter with the following as an example: "HEXATRONIC A35 yymmddhh TOL4032002/96C GRHLGL-L-CDFNRV 96/T12 G652D STD 9 kN xxx m" where yymmddhh = year, month, day and hour of manufacture, xxx=running meter marking.
Technical Notes	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.
Ordering Information	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
GRHGL 12/T4 G652D 250um TIA TOL4032002/12C	Black	12	3x4	210	7000	7000	1500	13.8	150	4000/K16, 6000/K18, 8000/K20
GRHGL 24/T4 G652D 250um TIA TOL4032002/24C	Black	24	6x4	210	7000	7000	1500	13.8	150	4000/K16, 6000/K18, 8000/K20
GRHLLDV 36/T6 G652D 250um TIA TOL4032002/36C	Black	36	6x6	210	7000	7000	1500	13.8	150	4000/K16, 6000/K18, 8000/K20
GRHGL 48/T8 G652D 250um TIA TOL4032002/48C	Black	48	6x8	220	8000	8000	1500	14.1	150	4000/K16, 6000/K18, 8000/K20
GRHLLDV 72/T12 G652D 250um TIA TOL4032002/72C	Black	72	6x12	235	8000	8000	1500	15.5	190	4000/K18
GRHGL 96/T12 G652D 250um TIA TOL4032002/96C	Black	96	8x12	270	9000	9000	1500	17.7	220	2000/K14, 4000/K20, 6000/K22, 8000/K24
GRHLLDV 144/T12 G652D 250um TIA TOL4032002/144C	Black	144	12x12	335	10000	10000	1500	22.1	345	2000/K18, 4000/K24, 6000/K26