



# Flame Retardant Indoor Cable – Ribbon

**GAHSQ 12-192 fibers G657A1 Dca S12**

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## Features

- 4-or 8- fiber ribbon
- Up to 192 fibers
- Bend resistant G657A1 fibers
- Slim and flexible
- Maximum fiber protection with slotted core design
- Flame-retardant CPR Class Dca-s1, d0
- Extremely low smoke density
- Halogen free
- Dielectric
- Super fast preparation

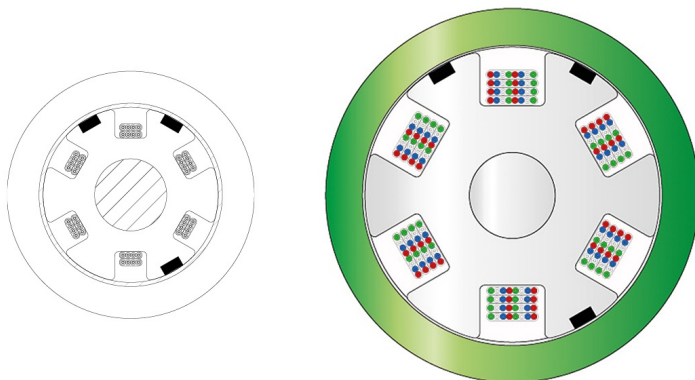
## Application

The GAHSQ cable is a slotted core ribbon cable for indoor/ outdoor installations where flame retardant cables are required. Being completely dielectric it can be installed in environments where there can be electrical interference, for example adjacent to power lines.

## Design

The cable is a slotted core design with 4-fiber or 8-fiber ribbons. 8-fiber ribbons are splittable into 4-fiber ribbons. The slotted core design gives the fibers maximum protection. The sheath and the core is made of highly flame retardant compound. A water blocking tape makes the cable longitudinally water blocked. No additional flame retardant tapes are required, so the preparation of the cable is quick and easy. The cable is designed with bend resistant G657A1 fibers which is 100% compatible with G652D. This cable complies to CE CPR Class Dca-s1, d0.

## Product Information



- 1 4- or 8-fiber ribbon: Silica, acrylate
- 2 Central strength member: Glass fiber reinforced plastic
- 3 Slotted core: HFFR thermoplastic compound
- 4 Water blocking: Water swelling tape
- 5 Sheath: HFFR thermoplastic compound

## Technical Information

<b>Product Color</b>	Green Sheath
<b>Color Code</b>	S12
<b>Temperature, Operation [°C]</b>	-40 to +60 (12-96f)
	-30 to +60 (192f)

<b>Temperature, Storage [°C]</b>	-40 to +70
<b>Temperature, Installation [°C]</b>	-15 to +40
<b>Water Blocking</b>	Longitudinal water blocking according to IEC 60794-1-2-F5B
<b>Reaction to Fire</b>	Fire rating according to EN 13501-6 CPR classification DCa-s1, d0
<b>Fiber Type</b>	G657A1
<b>Attenuation @Wavelength [nm]</b>	1310/1550/1625
<b>Average Attenuation [dB/km]</b>	0.36/0.22/0.25
<b>Maximum Attenuation [dB/km]</b>	0.38/0.25/0.30
<b>Conformance</b>	Longitudinal water blocking according to IEC 60794-1-2-F5B. Mechanical and environmental tests in accordance with IEC 60794-5-10. Fiber parameters and tests according to the IEC series 60793-2 and 60793-1.
<b>Marking</b>	Example of sheath marking, 1 time/meter: “HEXATRONIC A35 yymmddhh TOL4051031/192A GAHSQ-K-DHNV 192/B8 G657A1 S12 Dca-s1, d0 xxxx m” where yymmddhh = year, month, day and hour of manufacture, xxxx=running meter marking.
<b>Installation Notes</b>	Being completely dielectric it can be installed in environments where there can be electrical interference, for example adjacent to power lines.
<b>Ordering Information</b>	Supplied lengths: 2, 4, 6 or 8 km

## Articles 5

Article name	Color	No. of Fibers	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Tensile Force, Operation [N]	Crush [N/100 mm]	Impact [J]	Torsion [°]	Diameter Ø [mm]	Weight [kg/km]	Length [m]
<b>GAHSQ 12/C4 G657A1 S12</b> TOL4051033/12A	Green	12	3x4	147	1.5	1	4	10	180	9.8	105	–
<b>GAHSQ 24/C4 G657A1 S12</b> TOL4051033/24A	Green	24	6x4	–	–	–	–	–	–	9.8	105	100/Coil
<b>GAHSQ 48/C4 G657A1 S12</b> TOL4051033/48A	Green	48	12x4	147	1.5	1	4	10	180	9.8	105	–
<b>GAHSQ 96/C4 G657A1 S12</b> TOL4051032/96A	Green	96	24x4	226	2	1.5	6	25	180	15.1	215	–
<b>GAHSQ 192/B8 G657A1 S12</b> TOL4051031/192A	Green	192	24x8	258	2	1.5	3	8	180	17.2	270	–