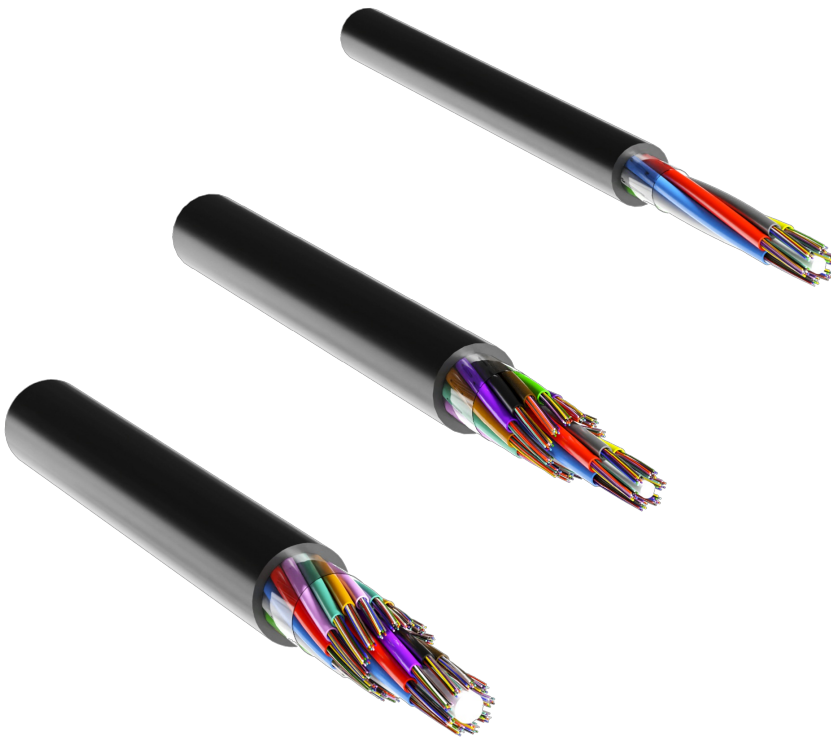




A Hexatronic
Group Company



LSZH Single Jacket Loose Tube Cable

LSZH LT 6-144 fibers G652.D TIA598

Features

- Up to 144 fibers
- LSZH Materials
- Suitable for laying in tray or pulling through duct
- Excellent optical performance with low loss G652.D fibers
- A dry cable design - easy to prepare and identify fibers
- Dielectric unarmoured design
- UV stabilised materials

Application

The Low Smoke Zero Halogen (LSZH) jacketed loose-tube cable series combines robust design, ultra-low attenuation and excellent installation performance. LSZH loose tube is designed for use in tunnels and confined areas as it limits potentially hazardous chemical and gaseous releases in fire situations. The SZ stranded loose tubes provide excellent performance even under significant tensile loads.

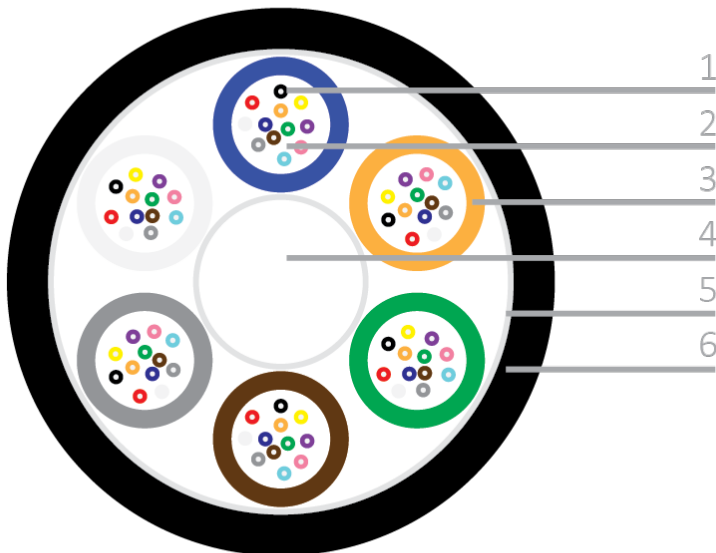
Design

The cables are based on a dry waterblocked concentric core, slim loose tube design with up to 12 tubes per cable.

The cables have one or two layers of protective SZ laid tubes made of a robust PBT compound where each tube has 12 fibers. (excluding 6f)

The tubes are sheathed by a halogen free fire resistant jacket. The design facilitates easy fiber preparation and mid-span access.

Product Information



- 1 Primary coated fiber: Silica, acrylate
- 2 Filler: Thixotropic gel
- 3 Loose tube: Polybutylene terephthalate
- 4 Central strength member: Glass fiber reinforced plastic
- 5 Wrapping: Water blocking yarns
- 6 Sheath: LSZH

Black fillers can replace tubes.

RipCORDS are included beneath outer sheaths.

CSM is up-coated in black where necessary

Technical Information

Product Color	Black sheath
Color Code	TIA598
Temperature, Operation [°C]	-20 to +70
Temperature, Storage [°C]	-20 to +70
Temperature, Installation [°C]	0 to +50
Fiber Type	G652D
Attenuation @Wavelength [nm]	1310/1550
Maximum Attenuation [dB/km]	0.36/0.23
Conformance	<p>Temperature Range: IEC 60794-1-22-F1</p> <p>Cable Bending Radius: IEC 60794-1-21-E11 A & B</p> <p>Tensile Force: IEC 60794-1-21-E1</p> <p>Impact Resistance: IEC 60794-1-21-E4</p> <p>Crush Resistance: IEC 60794-1-21-E3A</p> <p>Torsion Resistance: IEC 60794-1-21-E7</p> <p>Kink Resistance: IEC 60794-1-21-E10</p> <p>Water Penetration: IEC 60794-1-22-F5B</p> <p>Materials: AS 1049</p>
Marking	The sheath is indelibly printed every metre in a contrasting colour using the hot foil Indentation Method. The marking includes the manufacturer, part number, manufacturing date, batch number and metre marking. Customer printing is available by special order.
Ordering Information	Standard drum lengths: 2, 4 km ±5%

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
	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]	Impact [J]	Torsion [°]	Diameter Ø [mm]	Weight [kg/km]
LSZH 6F G652D TIA OSA-FSM-006ZLT	Black	6	1x6 (5 fillers)	200	2000	1000	1000	5	±180, 2m, 5 cycles	10.0 ±0.5	100
LSZH 12F G652D TIA OSA-FSM-012ZLT	Black	12	1x12 (5 fillers)	200	2000	1000	1000	10	±180, 2m, 5 cycles	10.0 ±0.5	100
LSZH 24F G652D TIA OSA-FSM-024ZLT	Black	24	2x12 (4 fillers)	200	2000	1000	1000	10	±180, 2m, 5 cycles	10.0 ±0.5	100
LSZH 48F G652D TIA OSA-FSM-048ZLT	Black	48	4x12 (2 fillers)	200	2000	1000	1000	10	±180, 2m, 5 cycles	10.0 ±0.5	100
LSZH 72F G652D TIA OSA-FSM-072ZLT	Black	72	6x12	200	2000	1000	1000	10	±180, 2m, 5 cycles	10.0 ±0.5	100
LSZH 96F G652D TIA OSA-FSM-096ZLT	Black	96	8x12	230	2000	1000	1000	10	±180, 2m, 5 cycles	11.4 ±0.5	130
LSZH 144F G652D TIA OSA-FSM-144ZLT	Black	144	12x12	280	2000	1000	1000	10	±180, 2m, 5 cycles	14.0 ±0.5	190