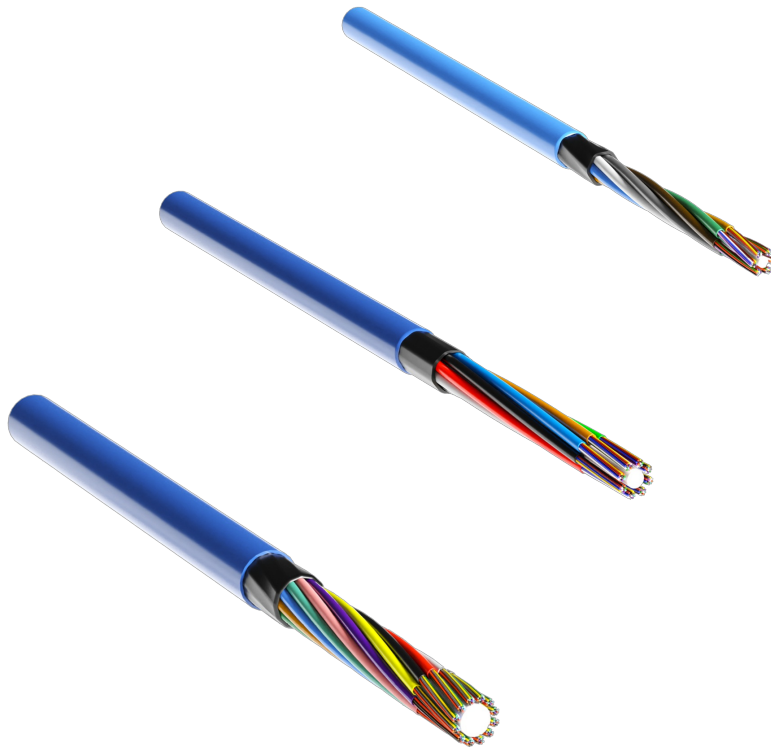




A Hexatronic  
Group Company



# Mini Nylon Loose Tube Cable

**Mini Nylon LT 6-288 fibers TIA598**

---

## Features

- Up to 288 fibers
- Suitable for installation in duct
- Excellent optical performance with low loss fibers
- A dry cable design - easy to prepare and identify fibers
- Fully dielectric design
- Excellent mechanical performance
- UV stabilised materials
- Termite protected design

## Application

The mini nylon loose-tube cable series combines ultra-low attenuation, state of the art installation performance and ultra compact size. Reduced diameter loose tube combines the same excellent performance of standard nylon loose tube, in a robust and compact form factor. Its reduced size is a benefit to both asset owners and installers, facilitating faster installation, easier handling, and less duct congestion.

## Design

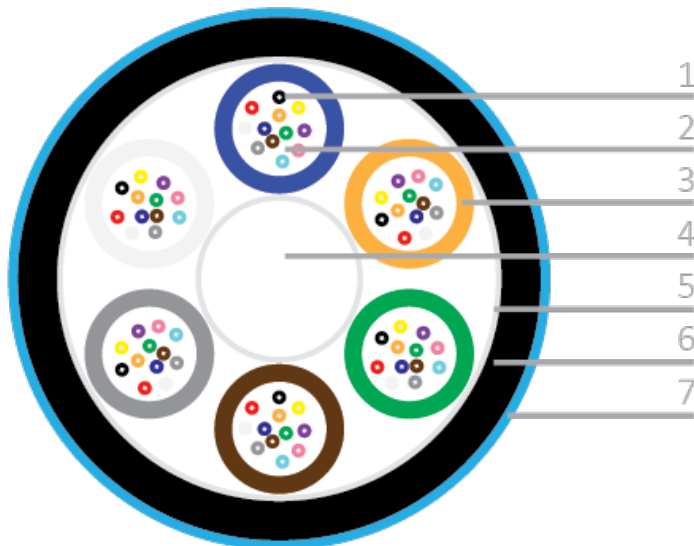
The cables are based on a dry waterblocked concentric core, slim loose tube design with up to 12 tubes per cable.

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 jacketed by a black HDPE and blue Nylon sheath in compliance with AS 1049.

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 Inner sheath: High density polyethylene
- 7 Outer jacket: PA 12

Black fillers can replace tubes.

Ripcords are included underneath the inner sheath.

CSM is up-coated in black PE where necessary

Double layer design for fiber counts greater than 144

## Technical Information

<b>Product Color</b>	Blue sheath
<b>Color Code</b>	TIA598
<b>Temperature, Operation [°C]</b>	-20 to +70
<b>Temperature, Storage [°C]</b>	-20 to +70
<b>Temperature, Installation [°C]</b>	0 to +50
<b>Fiber Type</b>	G657A1;G652D;OM3;OM4
<b>Attenuation @Wavelength [nm]</b>	1310/1550/1625 [850/1300]
<b>Maximum Attenuation [dB/km]</b>	0.36/0.23/0.27 [3.5/1.5]
<b>Conformance</b>	<p><b>Temperature Range:</b> IEC 60794-1-22-F1</p> <p><b>Cable Bending Radius:</b> IEC 60794-1-21-E11 A &amp; B</p> <p><b>Bending Under Tension:</b> IEC 60794-1-21-E1</p> <p><b>Tensile Force:</b> IEC 60794-1-21-E1</p> <p><b>Impact Resistance:</b> IEC 60794-1-21-E4</p> <p><b>Crush Resistance:</b> IEC 60794-1-21-E3A</p> <p><b>Torsion Resistance:</b> IEC 60794-1-21-E7</p> <p><b>Cable Aging:</b> IEC 60794-1-21-F9</p> <p><b>Water Penetration:</b> IEC 60794-1-22-F5B</p> <p><b>Materials:</b> AS 1049</p>
<b>Marking</b>	The sheath is indelibly printed every metre in a contrasting colour using the inkjet Method. The marking includes the manufacturer, part number, manufacturing date, batch number and metre marking.

**Ordering Information**

**Supplied lengths:** 2 km, 4 km  $\pm 5\%$

Other fiber types available by special order.

## 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 14

Article name	Color	No. of Fibers	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Torsion [°]	Diameter Ø [mm]	Weight [kg/km]
Mini HDPE/PA 6F G652D TIA OSA-FSM-006MLT	Blue	6	1x6 (5 fillers)	130	1000 @ 0.6% Fiber Strain	2000	1	±180, 5kg, 2m, 10 cycles	6.3±0.4	33
Mini HDPE/PA 12F G652D TIA OSA-FSM-012MLT	Blue	12	1x12 (5 fillers)	130	1000 @ 0.6% Fiber Strain	2000	1	±180, 5kg, 2m, 10 cycles	6.3±0.4	33
Mini HDPE/PA 24F G652D TIA OSA-FSM-024MLT	Blue	24	2x12 (4 fillers)	130	1000 @ 0.6% Fiber Strain	2000	1	±180, 5kg, 2m, 10 cycles	6.3±0.4	33
Mini HDPE/PA 48F G652D TIA OSA-FSM-048MLT	Blue	48	4x12 (2 fillers)	130	1000 @ 0.6% Fiber Strain	2000	1	±180, 5kg, 2m, 10 cycles	6.3±0.4	33
Mini HDPE/PA 72F G652D TIA OSA-FSM-072MLT	Blue	72	6x12	130	1000 @ 0.6% Fiber Strain	2000	1	±180, 5kg, 2m, 10 cycles	6.3±0.4	33
Mini HDPE/PA 96F G652D TIA OSA-FSM-096MLT	Blue	96	8x12	150	2000 @ 0.6% Fiber Strain	2000	1	±180, 5kg, 2m, 10 cycles	7.4±0.5	49
Mini HDPE/PA 144F G657A1 200um TIA OSA-FSM-144MLT	Blue	144	12x12	170	2000 @ 0.6% Fiber Strain	2000	1	±180, 5kg, 2m, 10 cycles	8.4±0.5	62
Mini HDPE/PA 288F G652D TIA OSA-FSM-288MLT	Blue	288	24x12	220	2000 @ 0.6% Fiber Strain	2000	1	±180, 5kg, 2m, 10 cycles	10.8±0.4	100
Mini HDPE/PA 6F OM3 TIA OSA-FM3-006MLT	Blue	6	1x6 (5 fillers)	130	1000 @ 0.6% Fiber Strain	2000	1	±180, 5kg, 2m, 10 cycles	6.3±0.4	33
Mini HDPE/PA 12F OM3 TIA OSA-FM3-012MLT	Blue	12	1x12 (5 fillers)	130	1000 @ 0.6% Fiber Strain	2000	1	±180, 5kg, 2m, 10 cycles	6.3±0.4	33
Mini HDPE/PA 24F OM3 TIA OSA-FM3-024MLT	Blue	24	2x12 (4 fillers)	130	1000 @ 0.6% Fiber Strain	2000	1	±180, 5kg, 2m, 10 cycles	6.3±0.4	33
Mini HDPE/PA 6F OM4 TIA OSA-FM4-006MLT	Blue	6	1x6 (5 fillers)	130	1000 @ 0.6% Fiber Strain	2000	1	±180, 5kg, 2m, 10 cycles	6.3±0.4	33

Article name	Color	No. of Fibers	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Torsion [°]	Diameter Ø [mm]	Weight [kg/km]
Mini HDPEPA 12F OM4 TIA OSA-FM4-012MLT	Blue	12	1x12 (5 fillers)	130	1000 @ 0.6% Fiber Strain	2000	1	±180, 5kg, 2m, 10 cycles	6.3±0.4	33
Mini HDPEPA 24F OM4 TIA OSA-FM4-024MLT	Blue	24	2x12 (4 fillers)	130	1000 @ 0.6% Fiber Strain	2000	1	±180, 5kg, 2m, 10 cycles	6.3±0.4	33