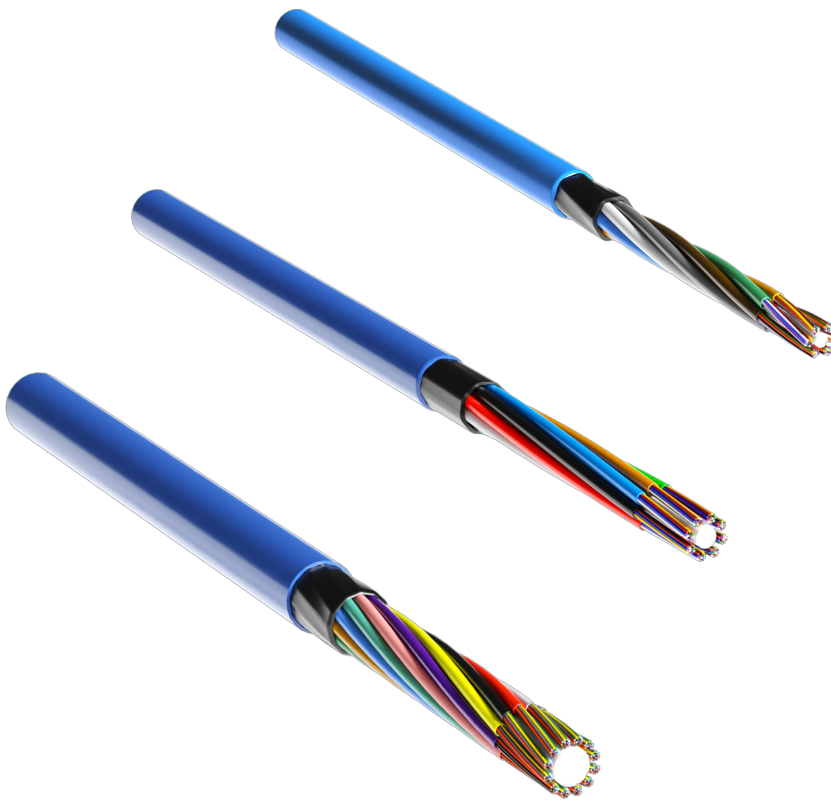




A Hexatronic
Group Company



Nylon Loose Tube Cable

Nylon Loose Tube 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 nylon loose-tube cable series combines robust design, ultra-low attenuation and excellent installation performance. Nylon loose tube is designed for use in termite prone areas as the hard outer nylon jacket provide protection against termites and insects. The SZ stranded loose tubes provide excellent performance even under significant tensile loads.

Design

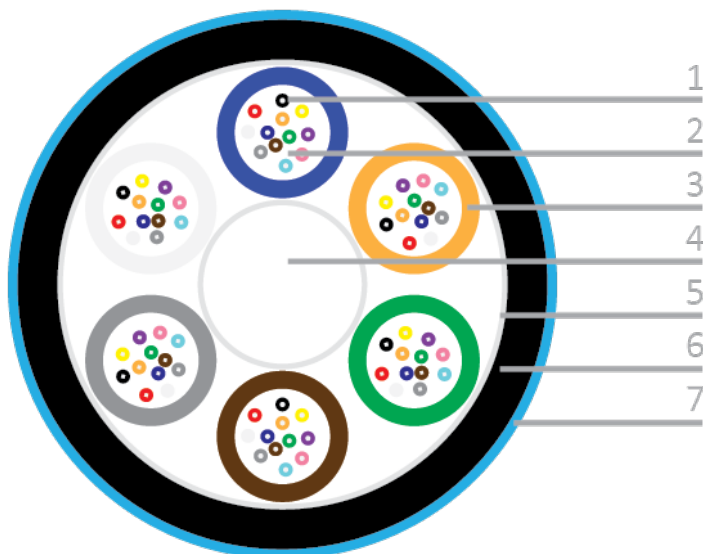
The cables are based on a dry waterblocked concentric core, loose tube design with up to 24 tubes per cable.

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

Product Color	Blue 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;OM1;OM2;OM3
Attenuation @Wavelength [nm]	1310/1550/1625 [850/1300]
Maximum Attenuation [dB/km]	0.36/0.23/0.27 [3.5/1.5]
Conformance	<p>Temperature Range: IEC 60794-1-22-F1</p> <p>Cable Bending Radius: IEC 60794-1-21-E11 A & B</p> <p>Bending Under Tension: IEC 60794-1-21-E1</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>Cable Aging: IEC 60794-1-21-F9</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 inkjet Method. The marking includes the manufacturer, part number, manufacturing date, batch number and metre marking.
Ordering Information	<p>Supplied lengths: 4 km ±5%</p> <p>Other fiber types available by special order.</p>

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 20

Article name	Color	No. of Fibers	Layout	Bend Radius [mm]	Tensile Force [N]	Crush [N/100 mm]	Impact [J]	Torsion [°]	Installation [m]	Diameter Ø [mm]	Weight [kg/km]
HDPE/PA 6F G652D TIA OSA-FSM-006LT	Blue	6	1x6 (5 fillers)	200	2000	2000	15	±180, 5kg, 2m, 10 cycles	10.0 ±0.5	75	
HDPE/PA 12F G652D TIA OSA-FSM-012LT	Blue	12	1x12 (5 fillers)	200	2000	2000	15	±180, 5kg, 2m, 10 cycles	10.0 ±0.5	75	
HDPE/PA 24F G652D TIA OSA-FSM-024LT	Blue	24	2x12 (4 fillers)	200	2000	2000	15	±180, 5kg, 2m, 10 cycles	10.0 ±0.5	75	
HDPE/PA 48F G652D TIA OSA-FSM-048LT	Blue	48	4x12 (2 fillers)	200	2000	2000	15	±180, 5kg, 2m, 10 cycles	10.0 ±0.5	75	
HDPE/PA 72F G652D TIA OSA-FSM-072LT	Blue	72	6x12	200	2000	2000	15	±180, 5kg, 2m, 10 cycles	10.0 ±0.5	75	
HDPE/PA 96F G652D TIA OSA-FSM-096LT	Blue	96	8x12	215	2500	2000	15	±180, 5kg, 2m, 10 cycles	10.7 ±0.5	95	
HDPE/PA 144F G652D TIA OSA-FSM-144LT	Blue	144	12x12	275	3000	2000	15	±180, 5kg, 2m, 10 cycles	13.6 ±0.5	153	
HDPE/PA 288F G652D TIA OSA-FSM-288LT	Blue	288	24x12	315	3000	2000	15	±180, 5kg, 2m, 10 cycles	15.6 ±0.5	195	
HDPE/PA 6F OM1 TIA OSA-FM1-006LT	Blue	6	1x6 (5 fillers)	200	2000	2000	15	±180, 5kg, 2m, 10 cycles	10.0 ±0.5	75	
HDPE/PA 12F OM1 TIA OSA-FM1-012LT	Blue	12	1x12 (5 fillers)	200	2000	2000	15	±180, 5kg, 2m, 10 cycles	10.0 ±0.5	75	
HDPE/PA 24F OM1 TIA OSA-FM1-024LT	Blue	24	2x12 (4 fillers)	200	2000	2000	15	±180, 5kg, 2m, 10 cycles	10.0 ±0.5	75	
HDPE/PA 48F OM1 TIA OSA-FM1-048LT	Blue	48	4x12 (2 fillers)	200	2000	2000	15	±180, 5kg, 2m, 10 cycles	10.0 ±0.5	75	

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]
HDPE/PA 6F OM3 TIA OSA-FM3-006LT	Blue	6	1x6 (5 fillers)	200	2000	2000	15	±180, 5kg, 2m, 10 cycles	10.0 ±0.5	75
HDPE/PA 12F OM3 TIA OSA-FM3-012LT	Blue	12	1x12 (5 fillers)	200	2000	2000	15	±180, 5kg, 2m, 10 cycles	10.0 ±0.5	75
HDPE/PA 24F OM3 TIA OSA-FM3-024LT	Blue	24	2x12 (4 fillers)	200	2000	2000	15	±180, 5kg, 2m, 10 cycles	10.0 ±0.5	75
HDPE/PA 48F OM3 TIA OSA-FM3-048LT	Blue	48	4x12 (2 fillers)	200	2000	2000	15	±180, 5kg, 2m, 10 cycles	10.0 ±0.5	75
HDPE/PA 6F OM4 TIA OSA-FM4-006LT	Blue	6	1x6 (5 fillers)	200	2000	2000	15	±180, 5kg, 2m, 10 cycles	10.0 ±0.5	75
HDPE/PA 12F OM4 TIA OSA-FM4-012LT	Blue	12	1x12 (5 fillers)	200	2000	2000	15	±180, 5kg, 2m, 10 cycles	10.0 ±0.5	75
HDPE/PA 24F OM4 TIA OSA-FM4-024LT	Blue	24	2x12 (4 fillers)	200	2000	2000	15	±180, 5kg, 2m, 10 cycles	10.0 ±0.5	75
HDPE/PA 48F OM4 TIA OSA-FM4-048LT	Blue	48	4x12 (2 fillers)	200	2000	2000	15	±180, 5kg, 2m, 10 cycles	10.0 ±0.5	75