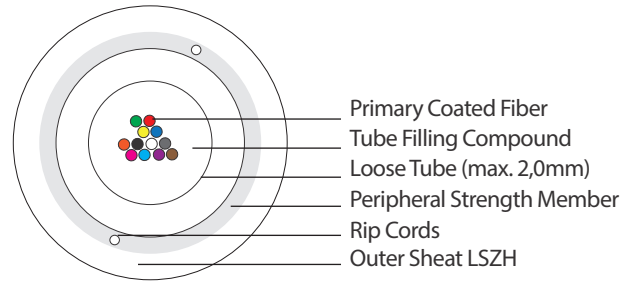


**SINGLE TUBE LSZH IU
(G657A & G652D) 4-12 fibers 3,5 mm**



Properties

- Single Loose Tube Unarmoured
- LSZH Low Smoke Zero Halogen Outer Sheath
- UV Resistant Outer Sheath
- Aramid yarns as flexible peripheral strength member
- Non metallic cable / immune to electromagnetic interferences
- Suitable for Indoor use
- Suitable for Microduct Installation

Specifications/Norms

Standard:	IEC 60794
Temperature Range Norms :	IEC 60794-1-2-F1
Laying and Installation	-30° to +70°C
Operation	-30° to +70°C
Transport and Storage	-30° to +70°C
Fiber colour :	acc. to DIN
Fiber type :	Singlemode G657A & G652 D IEC/ITU standards

Characteristics

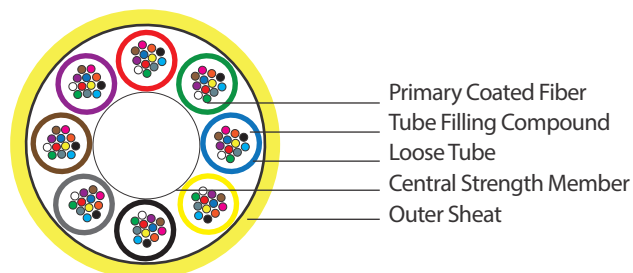
Cable Diameter : 3,5 mm
 Cable Weight : 9 kg/km
 Transport : Wooden Drum
 Bending radius (installation) : 20 x Cable Diameter
 Bending radius (installed) : 15 x Cable Diameter
 Tensile Force: During Installation 150 N
 Installed 75 N
 Crush Resistance: 50N (100 x 100 mm) for 60 sec.
 Outer Sheath colour : white
 Inkjet-Print : MICRO CABLE, FIBER COUNT, FIBER TYPE, PRODUCTION CODE, DRUM NUMBER

Colourcode Fiber - colours in bundle (13 -24 with rings)
 Tube colours

1	2	3	4	5	6	7
red	green	blue	yellow	white	grey	brown
8	9	10	11	12		
violet	cyan	black	orange	rosa		

Cable type	Fiber Number	Fiber Type	Cable Ø	Recommended microduct inside Ø	Drum Length
SL Tube LSZH 3,5mm 1x4	4	G657A & G652D	3,5mm	6 - 10 mm	4 km
SL Tube LSZH 3,5mm 1x8	8	G657A & G652D	3,5mm	6 - 10 mm	4 km
SL Tube LSZH 3,5mm 1x12	12	G657A & G652D	3,5mm	6 - 10 mm	4 km

MULTI TUBE LSZH IU (G652D) 24 - 72 fibers 7,2 mm, 96 fibers 8,2 mm



Properties

- Multi Loose Tube Unarmoured
- LSZH Low Smoke Zero Halogen Outer Sheath
- Non metallic cable
- Suitable for Indoor use
- Suitable for Micro duct Installation

Specifications/Norms

Standard:	IEC 60794
Temperature Range Norms:	IEC 60794-1-2-F1
Laying and Installation	-30° to +70°C
Operation	-30° to +70°C
Fiber colour :	acc. to DIN
Fiber type :	Singlemode G652 D IEC/ITU standards

Characteristics

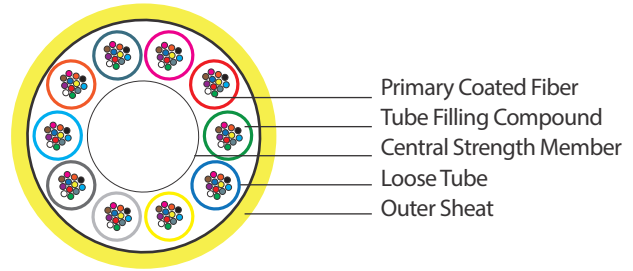
Cable Diameter : 7,2mm for 24-72F and 8,2 mm for 96F
 Cable Weight : 50kg/km for 24-72F and 65 kg/km for 96F
 Transport : Wooden Drum
 Bending radius (installed) : 15 x Cable Diameter
 Tensile Force: During Installation 650N (24-72F) 1500N (96F)
 Installed 500N (24-72F) 1000N (96F)
 Crush Resistance: 500N (100 x 100 mm) for 60 sec.
 Outer Sheath colour: black
 Inkjet-Print: MICRO CABLE, FIBER COUNT, FIBER TYPE,
 PRODUCTION CODE, DRUM NUMBER

Colourcode Fiber - colours in bundle (13 -24 with rings)
 Tube colours

1	2	3	4	5	6	7
red	green	blue	yellow	white	grey	brown
8	9	10	11	12		
violet	cyan	black	orange	rosa		

Cable type	Fiber Number	Fiber Type	Cable Ø	Recommended microduct inside Ø	Drum Length
ML Tube LSZH 7,2mm 6x4	24	G652D	7,2mm	10 - 16 mm	4 km
ML Tube LSZH 7,2mm 6x8	48	G652D	7,2mm	10 - 16 mm	4 km
ML Tube LSZH 7,2mm 6x12	72	G652D	7,2mm	10 - 16 mm	4 km
ML Tube LSZH 7,2mm 6x12	96	G652D	8,2mm	12 - 16 mm	4 km

MULTI TUBE LSZH IU
(G652D) 120 - 144 fibers 10,4 mm



Properties

- Multi Loose Tube Unarmoured
- LSZH Low Smoke Zero Halogen Outer Sheath
- Non metallic cable
- Suitable for Indoor use
- Suitable for Micro duct Installation

Specifications/Norms

Standard:	IEC 60794
Temperature Range Norms :	IEC 60794-1-2-F1
Laying and Installation	-30° to +70°C
Operation	-30° to +70°C
Fiber colour :	acc. to DIN
Fiber type :	Singlemode G652 D IEC/ITU standards

Characteristics

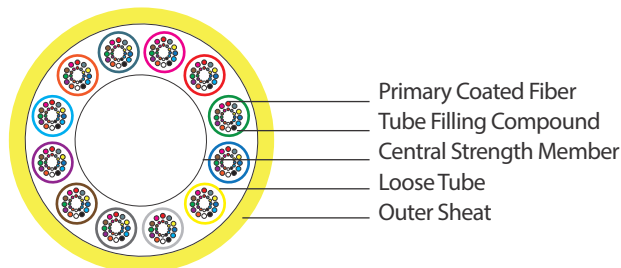
Cable Diameter : 10,4 mm
 Cable Weight : 100 kg/km
 Transport : Wooden Drum
 Bending radius (installed) : 15 x Cable Diameter
 Tensile Force: During Installation 1500 N
 Installed 1000 N
 Crush Resistance: 500N (100 x 100 mm) for 60 sec.
 Outer Sheath colour: black
 Inkjet-Print: MICRO CABLE, FIBER COUNT, FIBER TYPE,
 PRODUCTION CODE, DRUM NUMBER

Colourcode Fiber - colours in bundle (13 -24 with rings)
 Tube colours

1	2	3	4	5	6	7
red	green	blue	yellow	white	grey	brown
8	9	10	11	12		
violet	cyan	black	orange	rosa		

Cable type	Fiber Number	Fiber Type	Cable Ø	Recommended microduct inside Ø	Drum Length
ML Tube LSZH 10,4mm 10x12	120	G652D	10,4mm	16 mm	4 km
ML Tube LSZH 10,4mm 12x12	144	G652D	10,4mm	16 mm	4 km

MULTI TUBE LSZH IU (G652D) 168 - 288 fibers 11,4 mm - 14,4 mm



Properties

- Multi Loose Tube Unarmoured
- LSZH Low Smoke Zero Halogen Outer Sheath
- Non metallic cable
- Suitable for Indoor use
- Suitable for Micro duct Installation

Specifications/Norms

Standard:	IEC 60794
Temperature Range Norms :	IEC 60794-1-2-F1
Laying and Installation	-30° to +70°C
Operation	-30° to +70°C
Fiber colour :	acc. to DIN
Fiber type :	Singlemode G652 D IEC/ITU standards

Characteristics

Cable Diameter : 11,4 mm up to 192F / 14,4 mm up to 288F
 Cable Weight : 115 kg/km up to 192F / 185 kg/km up to 288F
 Transport : Wooden Drum
 Bending radius (installed) : 15 x Cable Diameter
 Tensile Force: During Installation 1500 N
 Installed 1000 N
 Crush Resistance: 500N (100 x 100 mm) for 60 sec.
 Outer Sheath colour: black
 Inkjet-Print: MICRO CABLE, FIBER COUNT, FIBER TYPE,
 PRODUCTION CODE, DRUM NUMBER

Colourcode Fiber - colours in bundle (13 -24 with rings)
 Tube colours

1	2	3	4	5	6	7
red	green	blue	yellow	white	grey	brown
8	9	10	11	12		
violet	cyan	black	orange	rosa		

Cable type	Fiber Number	Fiber Type	Cable Ø	Recommended microduct inside Ø	Drum Length
ML Tube LSZH 11,4mm 7x24	168	G652D	11,4 mm	16 mm	4 km
ML Tube LSZH 11,4mm 8x24	192	G652D	11,4 mm	16 mm	4 km
ML Tube LSZH 14,4mm 9x24	216	G652D	14,4mm	20 mm	4 km
ML Tube LSZH 14,4mm 10x24	240	G652D	14,4mm	20 mm	4 km
ML Tube LSZH 14,4mm 11x24	264	G652D	14,4mm	20 mm	4 km
ML Tube LSZH 14,4mm 12x24	288	G652D	14,4mm	20 mm	4 km