

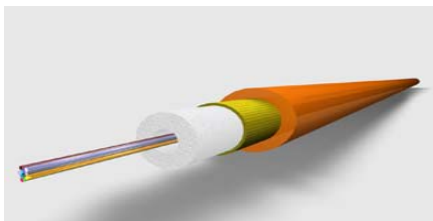
PRODUCT LAUNCH

FO Cables News

This overview shows all new available fiber optic cables from this year.

Jellyfree Mini Loose Tube Cable – up to 12 fibers

Jellyfree mini loose tube cable LSFH with an outer diameter of 3.5mm up to 12 fibers



Cable description: 12-12.../BH(ZN)H-.35

Cable datasheet: DOC-0000330343

Fiber count / -type: 2 – 12 fiber; Single Mode E9/125
Multi Mode G50/125-OM2/ -OM3/ -OM4
G62.5/125

Properties:

- Jelly free loose tubes save cleaning time
- Small outer diameter (3.5mm)
- Easy stripping of outer jacket
- Outer jacket material LSFH

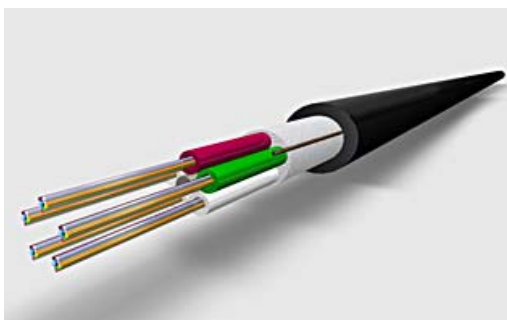
Applications:

- For indoor use only
- Data Center, LAN, distribution networks
- For Masterline applications

Availability: Some cable types are available from stock, if not the MOQ is 1000m
Prices on request (will be on price list 2011)

Jellyfree Mini Loose Tube Cable stranded up to 144 fibers

Stranded glass-armoured jellyfree mini loose tube cable LSFH up to max. 144 fibers.



<u>Cable description:</u>	<u>Cable datasheet:</u>
60-12.../BHSN(ZNG)H-.105	DOC-0000327691
72-12.../BHSN(ZNG)H-.117	DOC-0000330454
96-12.../BHSN(ZNG)H-.130	DOC-0000330462
120-12.../BHSN(ZNG)H-.140	DOC-0000330481
144-12.../BHSN(ZNG)H-.150	DOC-0000330487

Fiber count / -type: 24 – 144 fibers;
Single Mode E9/125
Multi Mode G50/125-OM2/ -OM3/ -OM4
G62.5/125

Properties:

- Jelly free loose tubes save cleaning time
- Optimized outer diameter with mini loose tubes
- Rodent protection
- Outer jacket material LSFH

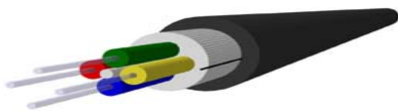
Applications:

- For indoor use only
- Data Center, LAN, distribution networks
- For MASTERLINE applications

Availability: Cables are not available from stock, MOQ 1000m
Prices are available upon request (will be on price list 2011)

Glass-armoured Riser Cable 5.5mm - with 4 fibers

Product amendment: In addition to the existing 2 way glass-armoured riser cable with the LSFH jacket; there is now also a 4 way cable with the same construction available.



Cable description: 04-.../FSN(ZNG)H-..55

Cable datasheet: DOC-0000294146

Available items: 84075876 04-G50/FSN(ZNG)H-G55
84104260 04-E9LB/FSN(ZNG)H-G55

Properties:

- For direct connector termination
- Low smoke, halogen free and self-extinguishing
- High fire performance, fulfils UL1666
- For high thermal and mechanical stability

Applications:

- For outdoor and indoor application
- ODC compatible, for FTTA application
- For horizontal and collapsed backbone cabling

Availability: Some cable types are available from stock, if not the MOQ is 1000m
Prices are available upon request (will be in price list 2011)

Push-In FTTH Indoor Cable - with 4 fibers

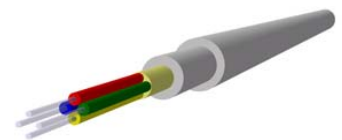
The newest FTTH indoor cable is designed for quick and easy installation with direct push-in in existing or new conduit installations. Easiest installation with additional fitting (pushing and pulling support part).



Cable description: 04-E9LB/V(ZN)HN-..40

Cable datasheet: DOC-0000332623

Available items: 84092181 04-E9LB/V(ZN)HN-H40



Properties:

- Good sliding properties for tube insertion
- Optimized stiffness for direct push-in
- High mechanical stability
- For direct connector termination

Applications:

- FTTH indoor area
- Rising area
- 4 x Single Mode Low Bend according ITU-G657.A2

Availability: Cables are available from stock starting in July 2010
Prices are available upon request (will be on price list 2011).

Note: More detailed information on this new cable will follow by a separate FO News in few weeks.

Single Mode „Low Bend Fiber“ according ITU-G657

Since more than one year new low bend optimized single mode fibers according to ITU-G.657 are available, mostly specified in FTTH market. Today the standards define these Low Bend Singlemode fibers with different classifications, shown as follows:



Standard / Bend radius	10mm	7.5mm	5mm	Compatibility to standard ITU-G.652.D
ITU-G.657 -	A1	A2	- *)	Ja
ITU-G.657 -	-	B2	B3	Not urgent
Number of turns	1	1	1	
Max. attenuation at 1550nm	0.75dB	0.5dB	0.15dB	
Max. attenuation at 1625nm	1.5dB	1.0dB	0.45dB	

*) A3 is not defined from the standards (earliest March 2011).

HUBER+SUHNER AG has specified only ITU-G.657-A2 for singlemode Low Bend fiber. This means that we also fulfil A1, as A2 covers A1 also. Consequently H+S uses a qualitatively higher specified singlemode Low Bend fiber than standard.

New cable projects in the pipeline ...

The following new cable projects will be ready for release in the second half of the year 2010:

- Redesign tight tube 0.9mm (F-tube)
- Industry Breakout 4 fiber „Quadfix“
- Duplex cable for LC Uniboot
- Simplex cable LSFH 1.4mm
- ADSS, aerial cable up to 12 fibers
- FO Jumper cable for Railway
- New FTTH indoor cable for DTAG



Furthermore detailed analyses concerning new low bend multimode fibers G50-OM3 and G50-OM4 are being performed. Approximately in August 2010 H+S will, depending on the results, decide if the standard multimode fibers (OM3, OM4) will generally be replaced by the new bend optimized multimode fibers.