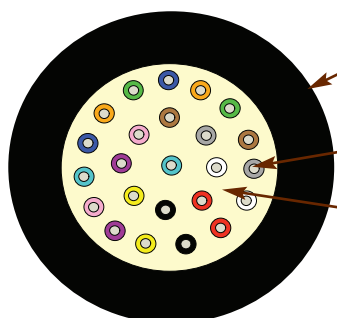




Indoor/Outdoor Tight Buffered

Siemon's LightSystem singlemode optical fibre cable is perfectly suited for the support of extended distance 10 Gigabit Ethernet (> 550m) applications as well as emerging applications, such as 40 Gb/s Synchronous Optical Network (SONET), that will operate at speeds beyond 10Gb/s. The tight buffered construction facilitates direct connectorization of fibres.



4-24 Strands

Jacket (Black)

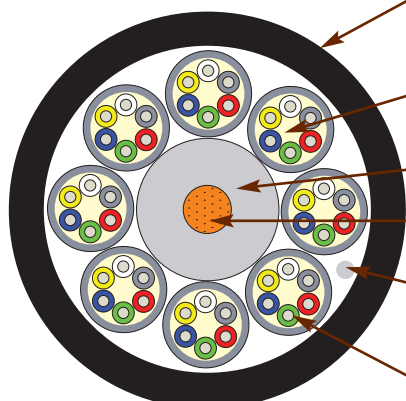
- Material: LSOH— LSOH Compound

Identification

- Colour-coded fibres

Aramid Yarns

- Water blocking swellable yarn



48-96 Strands

Jacket (Black)

- Material: LSOH— LSOH Compound

Aramid Yarns

- Water blocking swellable yarn

LSOH Covering

Central Strength Member

- Light-weight solid dielectric

Rip Cord

- Applied longitudinally under cable jacket

Identification

- Colour-coded fibres
- Individually numbered buffer tubes

CONSTRUCTION HIGHLIGHTS

- 900µm ± 50µm tight buffered fibers
- Length markings
- UV stabilised, LSOH fire retardant jacket
- Dry water blocked core
- Jacket material is lead free
- RoHS Compliant

PACKAGING

- Reels of 1 km

STANDARDS COMPLIANCE

- ISO/IEC 11801:2002 OS1
- ANSI/TIA/EIA-568-B.3
- Telecordia GR-409-CORE
- IEC 60332-1-2 (Single strand), IEC 60332-3-24 (Vertically-bunched), IEC 60754-1 (Acid gas), IEC 60754-2 (Acid gas), IEC 61034-2 (Smoke density)

ETHERNET APPLICATIONS SUPPORT

| APPLICATION | DISTANCE (m) |
|------------------------------------|--------------|
| 10GBASE-L (1310 nm) | 8,000 |
| 10GBASE-E (1550 nm) | 30,000 |
| 10G Fibre Channel (Serial-1310 nm) | 10,000 |
| 1000BASE-LX (1300 nm) | 5,000 |
| Fibre Channel 266/1062 (1300 nm) | 10,000 |
| ATM 52/155/622 (1300 nm) | 15,000 |

| PART # | FIBRE COUNT | CONSTRUCTION |
|---------------|-------------|----------------------|
| 9F8F3-4A1.00 | 4 | 1 tube of 4 fibres |
| 9F8F3-6B1.00 | 6 | 1 tube of 6 fibres |
| 9F8F3-8C1.00 | 8 | 1 tube of 8 fibres |
| 9F8F3-12D1.00 | 12 | 1 tube of 12 fibres |
| 9F8F3-16A1.00 | 16 | 1 tubes of 16 fibres |
| 9F8F3-24G1.00 | 24 | 1 tubes of 24 fibres |
| 9F8F3-48B1.00 | 48 | 8 tubes of 6 fibres |
| 9F8F3-72B1.00 | 72 | 12 tubes of 6 fibres |
| 9F8F3-96B1.00 | 96 | 16 tubes of 6 fibres |

OPTICAL SPECIFICATIONS —

| Fibre Type | Wavelength (nm) | Typical Attenuation (dB/km) | Maximum Attenuation (dB/km) | Zero Dispersion Wavelength (nm) | Zero Dispersion Slope (nm ² -km) | Index of Refraction |
|------------|-----------------|-----------------------------|-----------------------------|---------------------------------|---|---------------------|
| Singlemode | 1310 | 0.39 | 0.50 | 1312 ± 10 | ≤0.090 | 1.468 |
| | 1550 | 0.25 | 0.50 | 1312 ± 10 | ≤0.090 | 1.468 |

| Wavelength (nm) | Mode Field Diameter (microns) | Cladding Size (µm) | Coating Size (µm) |
|-----------------|-------------------------------|--------------------|-------------------|
| 1310 | 9.2 ± 0.4 | 125 ± 0.7 | 250 ± 15 |
| 1550 | 10.3 ± 0.5 | 125 ± 0.7 | 250 ± 15 |

PHYSICAL SPECIFICATIONS

| Fibre Count | Nominal Cable Diameter (mm) | Maximum Pulling Tension (Newtons) | | Nominal Net Weight (kg/km) |
|-------------|-----------------------------|-----------------------------------|-----------|----------------------------|
| | | Installation | Long Term | |
| 4 | 6.0 | 440 | 220 | 26 |
| 6 | 6.0 | 480 | 240 | 28 |
| 8 | 6.0 | 680 | 340 | 35 |
| 12 | 7.0 | 900 | 450 | 45 |
| 16 | 8.0 | 1200 | 560 | 60 |
| 24 | 8.0 | 1400 | 700 | 65 |
| 48 | 15.0 | 4200 | 1400 | 230 |
| 72 | 20.0 | 5400 | 1800 | 375 |
| 96 | 19.0 | 6600 | 2200 | 325 |

| Fibre Count | Minimum Crush Resistance (N) | Impact (N•m) | Operating Temperature (°C) | Storage Temperature (°C) | Minimum Bend Radius | |
|-------------|------------------------------|--------------|----------------------------|--------------------------|---------------------|-----------|
| | | | | | Installation | Long Term |
| 2-24 | 2000 | 10 | -40/70 | -40/70 | 15 x DIA. | 10 x DIA. |
| 48-96 | 3000 | 20 | -20/70 | -20/70 | 20 x DIA. | 10 x DIA. |

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Visit our web site for fibre connectivity and related products