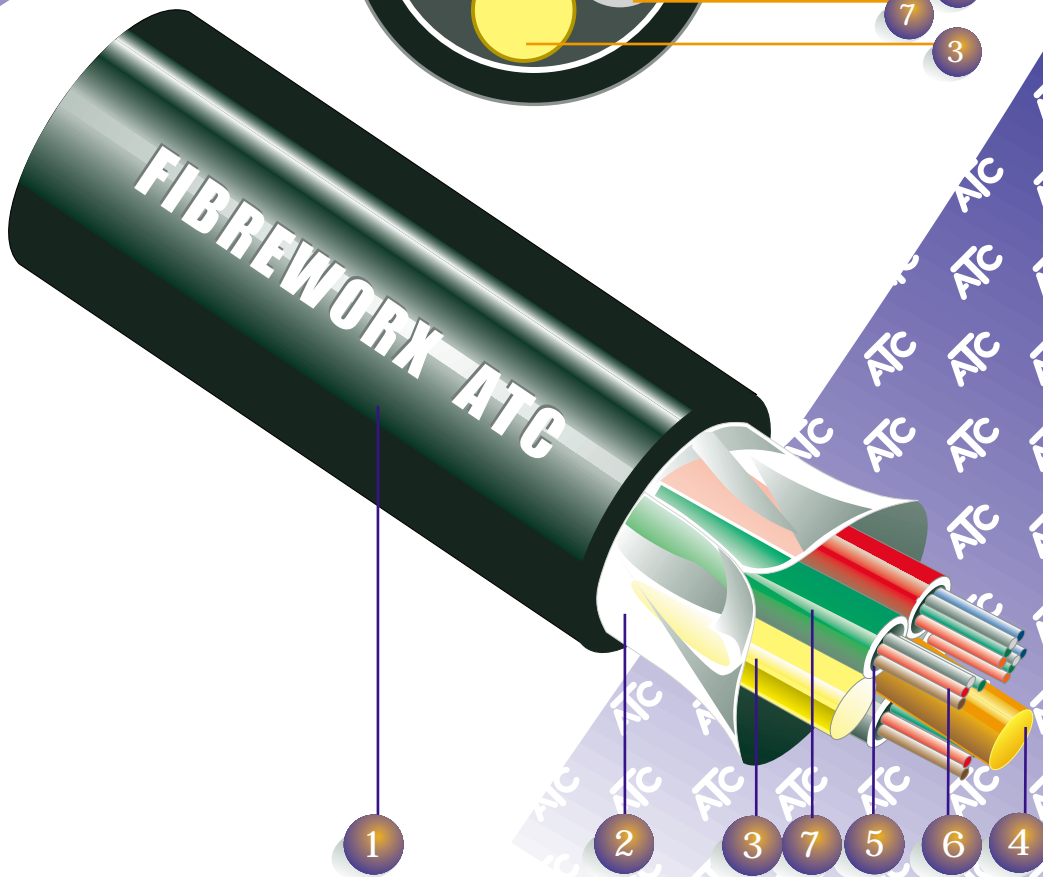
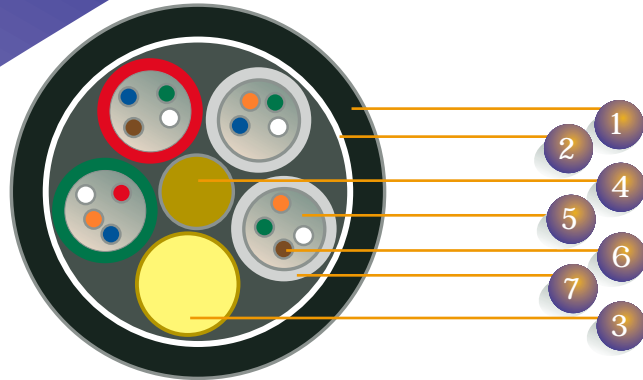




Short Haul Optical Fibre Cables

FibreWorx™



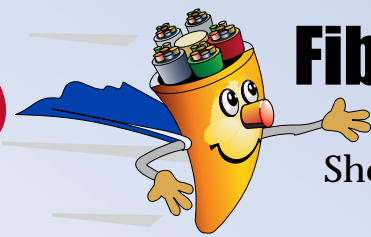
Cable Description

1. Polyethylene sheath.
2. Cable core binder.
3. Filler.
4. GRP centre strength member.
5. Thixotropic gel filling
6. Colour coded optical fibres.
7. PBT loose tube.

OPTICAL
FIBRE
CABLE

Technical detail overleaf

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FibreWorx™

Short Haul Optical Fibre Cables



Product features

- The ATC “FibreWorx” series ideally suited for industrial applications, are compact, loose tube cables specifically designed for short haul duct installations, but will tolerate aerial installation if UV protected and lashed.
- A non-metallic construction ensures lightning immunity.
- These cables are robust and provide excellent protection from crushing forces.
- One outstanding feature is that they provide sustained reliability over a wide temperature range. The fibres are free to move in the gel filled tubes, and can therefore remain relatively stress free while the cable contracts and expands with temperature differences.
- The tough water resistant sheath and gel filled tubes ensure its suitability for the duct environment.
- These cables can be highly populated with fibre, making it possible to utilise duct space efficiently.
- In addition, the cable is available with a Low Smoke Zero Halogen (LSZH) sheath to comply with the strictest building regulations.

Typical properties

| | | | | | |
|---|---------|---------|---------|---------|---------|
| • Fibre count (Up to) | 4 | 8 | 12 | 16 | 24 |
| • Construction (Number of elements) | 5 | 5 | 5 | 5 | 5 |
| • Diameter of cable (mm) | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 |
| • Weight of cable (kg/km) | 62 | 62 | 62 | 62 | 62 |
| • Maximum short term load (N)* | 1 000 | 1 000 | 1 000 | 1 000 | 1 000 |
| • Maximum long term load (N)** | 300 | 300 | 300 | 300 | 300 |
| • Minimum bend radius (mm) | 120 | 120 | 120 | 120 | 120 |
| • Crush resistance (N)(via 100 mm x 100 mm plate) | 1 500 | 1 500 | 1 500 | 1 500 | 1 500 |
| • Impact resistance (2 Nm blows / 25 mm anvil) | x3 | x3 | x3 | x3 | x3 |
| • Temperature range (°C) | -20/+70 | -20/+70 | -20/+70 | -20/+70 | -20/+70 |

Note:

* Short term load is the load at which the fibre strain is less than one third of the fibre proof strain level.

** Long term load is the load at which no fibre strain occurs.

| Fibre Count | Elements | | | | |
|-------------|------------------------|----------------------------|----------------------------|------------------|--------------------------|
| | 1 | 2 | 3 | 4 | 5 |
| 4 | Red Tube (4 fibres) | Yellow Filler | Yellow Filler | Yellow Filler | Yellow Filler |
| 8 | Red Tube (4 fibres) | Yellow Filler | Yellow Filler | Yellow Filler | Green Tube (4 fibres) |
| 12 | Red Tube (4 fibres) | Natural Tube (4 fibres) | Yellow Filler | Yellow Filler | Green Tube (4 fibres) |
| 16 | Red Tube (4 fibres) | Natural Tube (4 fibres) | Natural Tube (4 fibres) | Yellow Filler | Green Tube (4 fibres) |
| 24 | Red Tube (6 fibres) | Natural Tube (6 fibres) | Natural Tube (6 fibres) | Yellow Filler | Green Tube (6 fibres) |



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