

# ACOPTIC®

## Compact Tubes Range 2006



*For cabling and wiring all Telecom infrastructures*



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### For cabling and wiring all Telecom infrastructures

Historic telecommunication operators, alternative operators, local authorities, motorway and transport operators are all rushing to roll-out broadband fibre optic networks.

ACOPTIC® Compact Tubes Range gives specific solutions for each environment:

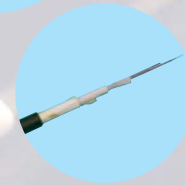
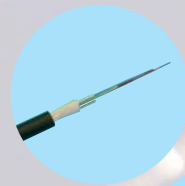
- **Urban environment, local loops and major corporations:** Cables for ducts, sewers, tunnels, subway networks.
- **Intercity networks, railway lines, motorways, industrial sites:** Cables for ducts, tunnels, direct burial or aerial.

ACOPTIC® Compact Tubes Range optical fibre cables incorporate the latest innovations, giving many advantages:

- **Easy to lay:** Small diameter, light weight, flexibility, increased strength, enhanced safety,
- **Quick and easy to use:** Easy opening, dry sealing, toolless access to fibres, flexible, tear-off module design,
- **Simple connections:** Mid span access, fiber shunting...



- Cable for laying in ducts, blowing or floating.
- Enhanced safety cables for laying in ducts, with indoor / outdoor option (LSOH sheath).
- Multi-use non-metallic cables, aerial duct or direct burial laying.
- Cables with steel armor for direct burial laying (Pe sheath) or for tunnels and subways (fireproof LSOH sheath).



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### DUCTS

metal-free HDPE sheath

Design for laying in ducts, these cables are designed for blowing or floating and/or pulling. As pulling puts the cable under greater stress, tensile resistance is increased by adding additional strength members (glass fibre reinforcements).

Two cable models are on offer, the **Duct** version (single sheath) and the **Enhanced Protection** Duct version, with two sheaths separated by fibre glass reinforcements.

	Duct Cables	Enhanced Protection Duct Cables	
Main laying method	Pulling floating or blowing	Floating or blowing	Pulling floating or blowing
Number of fibres	12 to 144 fibres	12 to 288 fibres	12 to 288 fibres
Tensile resistance	2200 to 2700N	800 to 1500N	2200 to 3500 N
Technical Data Sheet	UNC1566	CCU1574	CCU1575

### SEWER or DIRECT BURIAL

metal, HDPE sheath

To withstand severe mechanical constraints (impact, compression, etc.), these cables are reinforced with steel armor between two sheaths.

*Available with an outer fire resistant LSOH sheath option CEI60332-3-24 or NFC 32070-2.1(C2) and 2.2(C1)*

	Direct Burial and Sewer Cables
Number of fibres	12 to 288 fibres
Tensile resistance	1500 to 2,100N
Crush resistance	400 to 450N/cm
Technical Data Sheet	CCU1578 (CCU1581 optional LSOH sheath)

### TUNNEL and SUBWAY

metal (Zero Halogen)

To ensure the safety of property and people, fire behaviour standards are stringent. These cables contain no halogen and have improved fire behaviour, to meet the NFC 32070-2-2 (C1) trial, with a height of less than 30 cm burned (as compared with max. 80 cm tolerated in the standard).

*Fire resistance CEI60332-3-24 or NFC 32070-2.1(C2) and 2.2(C1)*

	Tunnels and Subway Cables
Number of fibres	12 to 288 fibres
Tensile resistance	2200 to 2,700N
Technical Data Sheet	CCU1579

### MULTI-USE (Aerial, Direct Burial, Ducts, etc.)

metal-free HDPE sheath

With a fibreglass-reinforced plastic (FRP) protection between the two sheaths, these cables have excellent mechanical characteristics. Mainly used for aerial applications (span up to 100 m, shot gun resistant) they can also be laid in the ground or in ducts. Thus, they ensure the transition from the pole descent to continue in terrestrial installations (direct burial, duct...).

	Multi-use Cables
Number of fibres	12 to 72 fibres
Tensile resistance	4000N
Crush resistance	450N/cm
Technical Data Sheet	CCU1577

### INDOOR / OUTDOOR, enhanced protection

metal-free, LSOH sheath

Designed for running a cable from the outdoors into a building, these cables have the same design as enhanced protection duct cables, but with a UV resistant, completely waterproof LSOH sheath with a low coefficient of friction.

*Fire resistance CEI60332-3-24 or NFC 32070-2.1(C2) and 2.2(C1)*

	Indoor / Outdoor Enhanced Protection Cables
Number of fibres	12 to 288 fibres
Tensile resistance	800 to 1500N
Technical Data Sheet	CCU1580

ACOPTIC® Compact Tubes Range is compatible with all existing, single mode or multi-mode 250 µm fibres.

# ACOME throughout the world

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