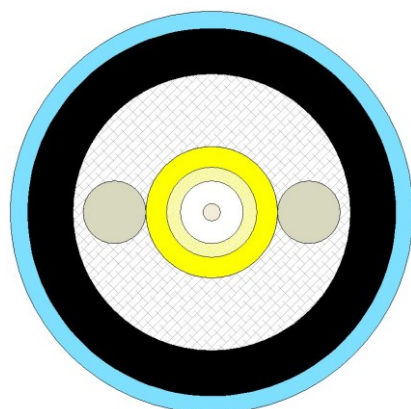


## SM@RTCORD®

### Single Tight Buffered Fibre Lead-in Optical Cable

#### Cable Design

ACMA - AS/CA S008



- Drawing not to scale -

- **Single-cord construction**
- **Secondary fibre protection (tight buffer):** Zero halogen flame retardant low smoke thermoplastic material
- **Peripheral strength member:** Water swellable aramid yarns
- **Cord:** Zero halogen flame retardant low smoke thermoplastic material
- **Peripheral strength members:** Glass fibre reinforced plastic material (GRP), glass and aramid yarns
- **Sheath:** Polyethylene (PE) in compliance with AS 1049
- **Outer jacket:** UV stabilised polyamide (Nylon) in compliance with AS 1049 integrally bonded to PE sheath

This tight buffered single cord optical cable is specifically designed for use in the last leg of the Fibre To The Premises (FTTP) applications. The cable can be pre-connectorised<sup>(1)</sup> and protected with QUICKDR@W® pulling shroud<sup>(2)</sup> for ease of installation and without the use of expensive fusion splicing equipment. It is specifically designed to be flexible and kink resistant.

#### Notes:

- (1) Standard SC/APC connector is factory fitted to one end of every individual cable. Both ends can be fitted with connectors upon request.  
(2) Prysmian hauling shroud is provided to hauling lead-in SM@RTCORD cable to customer conduits. See QUICKDR@W® datasheet for details.

#### Technical data

| Number of Fibres          |          | 1                                |                                |                      |
|---------------------------|----------|----------------------------------|--------------------------------|----------------------|
| Tight buffer nominal diam | mm       | 0.9                              |                                |                      |
| Cord nominal diam         | mm       | 2.0                              |                                |                      |
| Cable nominal diameter    | mm       | 5.8                              |                                |                      |
| Cable nominal weight      | kg/km    | 23                               |                                |                      |
| Max. installation tension | kN       | 0.6                              |                                |                      |
| Max. crush resistance     | kN/100mm | 1.0 (Short term)                 |                                |                      |
| Min. bending radius       | mm       | At full load 90<br>At no load 60 |                                |                      |
| Temperature range         | °C       | Installation -0 -> +50           | Transport & Storage -20 -> +70 | Operation -10 -> +70 |

#### Optical Characteristics

See the attached cabled optical fibre data sheet.

#### Identification

##### Fibre and Tight buffered fibre Colour

Natural (opaque) or white

##### Cord Colour:

|        |        |
|--------|--------|
| Colour | Yellow |
|--------|--------|

##### Sheath Colour:

The outer sheath colour is blue.

### Sheath Marking:

The outer sheath is marked in 1 metre intervals as follows:

PRYSMIAN DW 1F SM FTTP LEAD-IN SM@RTCORD Part Number T/N ##### MM/YY MADE IN AUSTRALIA \*\*\*\*\*M >> | << \*\*\*\*\*M

### Main mechanical characteristics

| Parameter           | Test method                | Test conditions                                                                                              | Acceptance criteria*                                                                    |
|---------------------|----------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Tensile strength    | IEC 60794-1-21-E1          | Load: As per cable maximum installation tension in technical data table above                                | Fibre strain $\leq 0.6\%$ . No physical damage and no change in attenuation after test. |
| Crush               | IEC 60794-1-21-E3          | Load: As per maximum crush resistance in technical data table above<br>Duration: 10 min (short-term)         | No physical damage. No change in attenuation during test.                               |
| Bend                | IEC 60794-1-21-E11         | Mandrel radius: As per Min. bending radius at no load in technical data table above<br>No. of turns/helix: 4 | No physical damage. No change in attenuation during test.                               |
| Bend under tension  | Concurrent to tensile test | Mandrel radius: As per Min. bending radius at full load in technical data table above<br>Bend: 360°, 1 turn  | No physical damage. No change in attenuation after test.                                |
| Temperature cycling | IEC 60794-1-22-F1          | Sample length: 1000 m (minimum)<br>Temperature range: -10 °C to +70 °C                                       | No change in attenuation between Min. & Max. operation temperatures.                    |
| Cable aging         | IEC 60794-1-22-F9          | 85°C for 168 h followed by Temperature cycling                                                               | Max. change in attenuation $\leq 0.10$ dB/km after test                                 |
| Water penetration   | IEC 60794-1-22-F5C         | Sample length=3m, Water height=1m                                                                            | No water leakage after 24 hour                                                          |

\* All optical measurements for singlemode fibres performed at 1550 nm.

### Logistic<sup>#</sup>

#### Packing:

Timber or plastic drums

#### Delivery Lengths:

Standard delivery length is 6 km with a tolerance of - 1% / + 3%

#See QUICKDR@W<sup>®</sup> datasheet for packing details of pre-connectorised cable