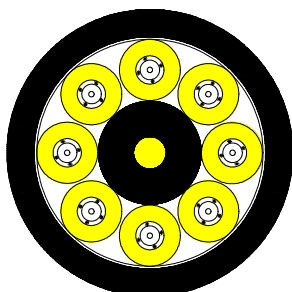


## Indoor / Outdoor Heavy Duty Breakout Optical Cable

### Cable Design

**AS/NZ 3080**  
**ACMA - AS/CA S008**



- Drawing not to scale -

- **Multi-cord construction**
- **Cord:** PVC in compliance with AS 1049
- **Central strength member (CSM):** PVC coated aramid yarns
- **Stranding:** The required numbers of elements (cords and fillers) are SZ stranded around the central strength member
- **Peripheral strength members:** Water swellable aramid yarns
- **Longitudinal water tightness:** Water swellable elements (dry-core technology)
- **Sheath:** UV stabilised LSOH in compliance with AS 1049.

This tight buffered multi-cord optical cable is suitable for applications in local area network (LAN) including FDDI cabling, Ethernet and Token ring

### Technical data

Number of Fibres		2 to 6	8	12
Number of elements		6	8	12
Cord diameter	mm		2.0 ± 0.2	
Cable nominal diameter	mm	8.6	9.9	12.6
Cable nominal weight	kg/km	75	95	152
Max. installation tension	kN	0.7		1.2
Max. crush resistance	kN/100 mm		1.0 (Short term) / 0.5 (Long term)	
Min. bending radius	mm		At full load 20 x cable OD At no load 10 x cable OD	
Temperature range	°C	Installation 0 -> +50	Transport & Storage -20 -> +60	Operation 0 -> +60

### Optical Characteristics

See the attached tight buffered / cabled optical fibre data sheet.

### Identification

#### Fibre and Buffer fibre Colours

Fibre and tight buffered fibre colours are natural (opaque).

#### Cord Colours

Fibre type	OS2	OM1	OM3
Colour	yellow	orange	aqua

All individual cords are numbered (ink jet print) for easy identification.

#### Sheath Colour:

The outer sheath colour is black.

**Sheath Marking:**

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

PRYSMIAN DW IN/OUTDOOR BREAKOUT Part Number  N10514 T/N #### MM/YY MADE IN AUSTRALIA \*\*\*\*\*M

**Main mechanical characteristics**

Parameter	Test method	Test conditions	Acceptance criteria*
Tensile strength	IEC 60794-1-2-E1	Load: As per cable maximum tensile strength in table above.	After 30 minutes the maximum strain on the fibre should not exceed 0.5% and no attenuation increase greater than 0.1 dB occurs
Crush	IEC 60794-1-2-E3	Short time: 10 min Long time: 120 min Load: As per maximum crush resistance in table above Number of positions: 3 adjacent sections (ensuring one over tube and one over lay reversal)	No damage to the sheath or to the core structure and no attenuation increase greater than 0.1 dB occurs
Impact	IEC 60794-1-2-E4	Weight: 0.5 kg Height: 1.0 m Anvil radius: 12.5 mm Impacts: 1	After 5 minutes no fibre breaks, no damage to the sheath or to the core structure and no attenuation increase greater than 0.1 dB occurs
Torsion	IEC 60794-1-2-E7	Sample length: 1 m Tension: As per table 1 of specification Rotation: a) 180° clockwise, b) return to starting position c) 180° anticlockwise d) return to starting position. Four movements constitute one cycle). Complete 10 cycles (a to d) in one minute maximum	During the final tenth cycle at a), c) and after completion (no rotation) check transmitting fibres. No fibre breaks, no damage to the sheath or to the core structure and no attenuation increase greater than 0.1 dB occurs
Bend	IEC 60794-1-2-E11	Mandrel diameter: 20 x Cable OD Bend: 360° (1turn)	No attenuation increase greater than 0.1 dB occurs
Bend under tension	Concurrent to tensile test IEC 60794-1-2-E18	Mandrel diameter: 40 x Cable OD Bend: 360° (1turn)	After 1minute no fibre breaks, no damage to the sheath or to the core structure and no attenuation increase greater than 0.1 dB occurs from no load to full load
Temperature cycling	IEC 60794-1-2-F1	Sample length: 1000 m (minimum) Temperature range: From 0 °C to +60 °C	There should be no average attenuation increase at the temperature extremes when compared to the attenuation at ambient temperature. No individual fibre should measure an attenuation greater than 0.15 dB/km
Water penetration	IEC 60794-1-2-F5B	Sample length=3m, Water height=1m	No water leakage after 24 hour

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

**Logistic**

**Packing:**

New non-returnable timber or plastic drums with NolcoFlex® protection

**Delivery Lengths:**

Standard delivery length: 5 km with a tolerance of - 1% / + 3%

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All sizes and values without tolerances are reference values. Specifications are for product as supplied by PrysmianGroup: any modification or alteration afterwards of product may give different result.

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