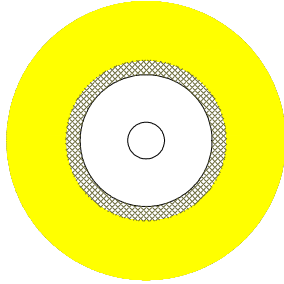


Single fibre Patch Cord Cable (Simplex)

Cable Design

AS/NZ 3080
ACMA - AS/CA S008



- **Single-fibre (singlemode and multimode)**
- **Fibre protection (secondary):** PVC in compliance with AS 1049
- **Peripheral strength members:** Aramid yarns
- **Sheath:** PVC in compliance with AS 1049

- Drawing not to scale -

This tight buffered fibre optical cord is suitable for interconnection in high cabling density patch panels and process control applications in local area networks (LAN) including FDDI cabling, Ethernet and Token ring

Technical data

Number of Fibres	1			
Cord diameter	mm	2.0 ± 0.2		
Tight buffer diameter	µm	900 ± 50		
Cable nominal weight	kg/km	3.2		
Max. installation tension	kN	0.1		
Max. crush resistance	kN/100 mm	0.5 (Short term)		
Min. bending radius	mm	At full load 60 At no load 30		
Temperature range	°C	Installation -0 -> +50	Transport & Storage -10 -> +60	Operation 0 -> +60

Optical Characteristics

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


Identification

Fibre Colour (tight buffered):
Natural.

Sheath Colour:
The sheath colour is yellow for singlemode and orange for multimode fibres.

Sheath Marking:

The sheath is marked at 0.5 meter intervals with the following:

PRYSMIAN DW DESKWAVE Part Number  N10514 T/N #### MM/YY ****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 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
Torsion	IEC 60794-1-2-E7	Sample length: 1 m Bends: 360° (1turn) clockwise and after measurement (one minute) 720° (2turns) anticlockwise (two minutes)	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 radius: As per minimum bend radius at no load in table above. 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 radius: As per minimum bend radius at full load in table above. 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

Logistic

Packing:

New non-returnable plastic drums

Delivery Lengths:

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

Maximum delivery length: 4 km with a tolerance of - 1% / + 3%

© PrysmianGroup 2012, All Rights Reserved

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.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of PrysmianGroup. The information is believed to be correct at the time of issue. PrysmianGroup reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by PrysmianGroup.