



# Product Data Sheet

Argosy **TACflex-pro** 4 Core OS2 PUR Black, Per Metre

## Description



Argosy **TACflex-pro** Series – Rugged Fibre Solutions for touring & events.

Built for the rigours of the live event and touring industries, the Argosy **TACflex-pro** Series delivers unmatched durability and performance in even the toughest environments. These high-performance fibre cables are engineered with BendBright™ XS fibre technology, ensuring ultra-flexibility without compromising signal integrity – even in demanding, high-movement applications.

Available in 2, 4, and 12 fibre counts, the **TACflex-pro** Series is designed to withstand repeated deployment and retrieval, offering tough, flexible, and hard-wearing construction that meets the high standards of broadcast, AV, and entertainment professionals.

Product	SKU
ARGOSY TACFLEX-PRO 4 CORE OS2 PUR BLACK, PER METRE	105211

## Applicable Standards

IEC 60793-2-50 Category B6 a and B6 b	EN 50 173-1:2007, cat. OS2
EN 60793-2-50: Class B6 a and B6 b	ISO/IEC 11801 :2002, cat. OS1
ITU Recommendation G.657.A and G.657.B	ISO/IEC 24702:2006 cat. OS2, also OS1 requirements are fulfilled
ITU Recommendation G.652.D - the older ITU designations A, B and C are also fulfilled.	IEEE 802.3 -2002 incl. 802.3ae




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## Key Benefits

- Designed for professional touring and live event environments
- Ultra-flexible with BendBright™ XS fibres for bend-insensitive performance
- Available in 2, 4, and 12 fibre configurations
- Rugged, reliable construction for long-term durability
- Delivers consistent optical performance, again and again

## Technical Specification

Argosy <b>TACflex-pro</b> 4 Core OS2 PUR Black Spec	
Construction	Technical data
<b>Fibre Type:</b> 9/125 µm Single mode, BendBright XS (BBXS) Tight buffer, TB9	<b>Outer diameter (mm):</b> 6.0
<b>Fibre core diameter:</b> 9µm	<b>Weight (Kg/km):</b> 29
<b>Cladding diameter:</b> 125 ±0.4 µm	<b>Fibre type:</b> BBXS C25
<b>Primary Coating diameter:</b> 242 ± 5 µm	<b>Tensile force [N]:</b> 400
<b>Secondary buffer diameter:</b> 900 µm	<b>Attenuation (of cable with fibres), IEC 60793-1-40</b>
<b>Identification:</b> 1 x red, 1 x blue, 1 x yellow, 1 x green	<b>1310 nm -1625 nm:</b> < 0.39 dB/km
<b>Cable lay up:</b> (O+4) 4 fibers twisted to a bundle	<b>1550 nm:</b> < 0.25 dB/km
<b>Strength member:</b> Aramid yarn	<b>Inhomogeneity of OTDR trace for any two 1000 metre fibre lengths:</b> Max. 0.1 dB/km
<b>Sheath:</b> PUR HFFR, black matt, RAL 9005, diameter 6.0mm	<b>Group index of refraction, IEC 60793-1-22</b>
<b>Mechanical properties</b>	<b>Group index of refraction at 1310 nm:</b> 1.467
<b>Minimum bending radius:</b> 10 x D	<b>Group index of refraction at 1550 nm:</b> 1.467
<b>Temperature range:</b> -20°C to + 70°C	<b>Group index of refraction at 1625 nm:</b> 1.468
<b>TCT deviation:</b> ± 0.7dB max	 Manufactured in the EU



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## Other properties

IEC 60793-1-xx

Cladding diameter	IEC/EN 60793-1-20	μm	125.0 ± 0.4
Cladding non-circularity	IEC/EN 60793-1-20	%	≤ 0.3
Core (MDF) -cladding concentricity error	IEC/EN 60793-1-20	μm	≤ 0.3
Primary coating diameter	IEC/EN 60793-1-21	μm	242±5
Primary coating non-circularity	IEC/EN 60793-1-21	%	≤ 5
Primary coating-cladding concentricity error	IEC/EN 60793-1-21	μm	≤ 12.0
Proof stress level	IEC/EN 60793-1-30	GPa	≥ 0.7 (≈1 %)
Strip force (peak)	IEC/EN 60793-1-32	N	1.0 ≤ F <sub>peak,strip</sub> ≤ 8.9
Static fatigue, aged ns		–	≥ 23
Chromatic dispersion coefficient: In the interval 1285 nm -1330 nm At 1550 nm	IEC/EN 60793-1-42	ps/km • nm ps/km • nm	≤  3  ≤ 18.0
Zero dispersion wavelength, A.a		nm	1300 -1324
Zero dispersion slope		ps/(nm <sup>2</sup> • km)	≤ 0.092
Cut-off wavelength, cable	IEC/EN 60793-1-44	λ <sub>cc</sub> nm	≤ 1260
Cut-off wavelength, fibre	IEC/EN 60793-1-44	λ <sub>cf</sub> nm	≤ 1280
Mode field diameter at 1310 nm Mode field diameter at 1550 nm	IEC/EN 60793-1-45	μm μm	8.2 - 9.0 9.1 - 10.1
Macro bending loss at 1550 nm, 10 turns on a R = 15 mm mandrel 1 turn on a R = 10 mm mandrel 1 turn on a R = 7.5 mm mandrel	IEC/EN 60793-1-47	dB	≤ 0.03 ≤ 0.1 ≤ 0.5
Polarisation mode dispersion (PMD) coefficient, cabled	IEC/EN 60793-1-48	ps/√km	≤ 0.15
PMD <sub>0</sub> Link Design Value	IEC/EN 60794-3	ps/√km	≤ 0.08