

Riedel PURE

Based on Riedel's extensive experience in demanding rental projects such as Olympic Games, Formula 1 or the Eurovision Song Contest, Riedel designed a fiber optic cable that meets the highest demands in event and mobile productions. With Pure, clients directly benefit from Riedel's expertise.

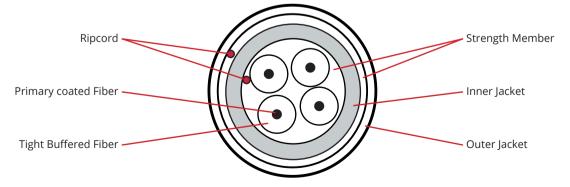


- Single-mode 9/125, PC
- Extremely strong, rugged, survivable tight-buffered cables for severe environments
- These cables are flame retardant and watertight and therefore suitable for indoor and outdoor use
- Helically stranded cable core for flexibility and outstanding mechanical protection for the fibers
- Core-bonded Polyurethane jacket providing simple installation.
- Predicted lifetime > 30 years
- Available with Neutrik opticalCON DUO and Neutrik opticalCON QUAD including metal protection caps
- Available on cable drum

Cable Specifications (construction in accordance with IEC 60794)

- Primary coated optical fibres: Ø 280 ±15 μm
- Tight buffered fibres: Ø 0.9 ±0.1 mm
- Colour coding of the buffered fibres
 - o white red blue yellow green violet brown black orange- turquoise pink grey
- Swellable aramid yarns as common strength members and for the longitudinal watertightness
- Black Polyurethane inner jacket with (polyester) rip cord
- Swellable glassyarns as additional strength members (only Riedel PURE XT)
- Black Polyurethane outer jacket with (polyester) rip cord (only Riedel PURE XT)

Construction



24.07.2013 | Rev 1.0 | Subject to change without notice. Errors and omissions excepted.



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Characteristics

	according to IEC 60794-1-2-F1				
Temperature range	-70 + 85 °C	Transport / Storage			
	-5 + 50 °C	Installation			
	-55 + 85 °C	Operation			
Bending Radius for Fibres	>25 mm	Installation / Operation			
	Max. increase 0.02 dB/turn @1550nm with 32 mm				
	Max. increase 0.20 dB/turn @1550nm with 20 mm				
Strippability	≤ 10 cm	Secondary coating only			
	≤ 10 mm	Secondary + primary coating			
Watertightness	according to IEC 60794-1-2-F5				
Crush resistance	according to IEC 60794-1-2-E3				
	≤ 4.000 N/m	Tight buffer			
	\leq 4.000 N/m (Riedel PURE CS) / \leq 50.000 N/m (Riedel PURE XT)	Cable			
Bending Radius for Cables	8 × ø	Static according to IEC 60794-1-2-E11			
	4 × Ø	Dynamic according to IEC 60794-1-2-E6			
Flame retardancy	according IEC 60332-2 (EN 50265-2-2)				
Repeated bending	> 700.000 times	according to IEC 60794-1-2-E6			
Fibre-Type	9/125 µm / G.657A				
Mode-Field	8.9 ±0.4 μm (125 ±0.3 μm)	(Cladding Diameter)			
Wavelength	1310 nm (0.35 / 0.5 dB/km)				
	1550 nm (0.21 / 0.3 dB/km)	(Attenuation average / max.)			
	1625 nm (0.24 / 0.4 dB/km)				
Dispersion	≤ 3.5 ps / ≤ 18 nm/km				
PMD	≤ 0.2 ps/km				
Cable Cut-off Wavelength	≤ 1260 nm				

Mechanical Data

	Riedel PURE CS D	Riedel PURE CS Q	Riedel PURE XT D / PURE XT Q			
Ø Inner jacket nom.			5.8			
Ø Outer jacket nom.	5.4 mm	5.8 mm	9.2			
Max. pulling tension	according to IEC 60794-1-2-E1	according to IEC 60794-1-2-E1				
	700 N	800 N	1600 N	Long term		
	1500 N	1600 N	2400 N	Short term		
Energy of flame	470 kJ/m	580 kJ/m	1180 kJ/m			
Weight	27 kg/km	31 kg/km	61 kg/km			