

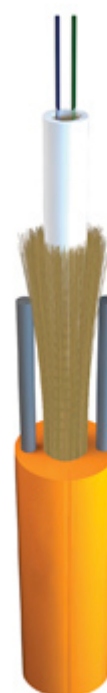
DAC

DAC Direct Access Cable - Outdoor Underground, Direct-buried, Metallfree, Central Tube Cable. Light-weight, non-metallic, central tube direct-buried Access cable with small diameter for easy installation, longitudinally water-protected. This cable has a very high crush resistance and tensile strenght, is fast strippable (over >4 meter in one stroke). Due to extra strenght-members in the cable outersheath, this central tube design has an improved temperature range. Installation: direct burial application.

Commercial information		Properties	Unit
Product group		Fibre optic cable	
Series		Fibre optic cable Single mode	
Type		DAC	
Description		4x SM G.657.A1	
Net weight		28	kg/km
Marking	ACE - TKF DAC 4 x SM G.657.A1 A-DQ(ZN)9Y 75404		
	{Year} {Batch} {Length}		

Article number / standard length	EAN number	Properties	Unit
75404	8713182095710	Drum à 1	m

Construction	Properties	Unit
Test procedures	IEC 60794-1-2	
Application	Outside	
Cable metal free	Yes	
Installable by blowing	No	
Strain relief	Yes	
UV resistant	Yes	
Halogen free (acc. EN 50267-2-2)	Yes	
Longitudinal water blocking	Yes	
Number of fibres	4	
Number of fibres per tube	4	
Number of cores	1	
Type of tube	Loose tube, gel filled	
Fibre Type	Single mode	
Optical fibre standard	ITU-T G.657.A1	
Type of strain relief	FRP + Aramide	
Material outer sheath	Polypropylene	
Colour outer sheath	Orange	



DAC



Characteristics for use	Properties	Unit
UV-protection	ISO 4892/2	
Longitudinal watertight construction	Super Absorbing Polymer	
Kleurechtheid	Blue wool scale 5	
Outer sheath thickness	1.5	mm
Outer diameter approx.	5.9	mm
max. cable diameter	6.3	mm
Bending radius during installation	60	mm
Bending radius after installation	45	mm
Bending radius fiber (1 turn acc. to ITU rec.)	30	mm
Bending radius fibre storage (<10 turns acc ITU rec)	15	mm
Tensile load short term (Tm)	1200	N
Tensile load Long Term (TI)	360	N
Cable strain by Tm	0.33	%
Installation temperature	-10 / 50	°C
Operation temperature range	-30 / 70	°C
Transportation and storage temperature	-30 / 70	°C

Technical characteristics	Properties	Unit
Attenuation @ 1310 nm	0.38	dB/km
Attenuation @ 1550 nm	0.25	dB/km
Attenuation @ 1625 nm	0.28	dB/km
Crush resistance acc. meth.E3A	4000	N/dm
Impact strength	8	J
Impact strength (Shofel test)	3	J
Cable cutting resistance	300	N
Torsion resistance	1800	°/m
Kink resistance	60	mm
Strippability	1000	mm

Product information

Product Characteristics - Optical fibres

Fibre:		
	type of fibre	hydrogen passivated, dispersion unshifted, matched cladding Abending loss insensitive singlemode fibre 9/125µm Full compatible with G.652.D fibre Optical and geometrical properties exceed ITU~ recommendations G.652.D and G.657.A1
	Standard	IEC-60793-2-50, B6-a
	Standard	ITU-TG.657.A1

Characteristics:	Properties	Unit
Mode field diameter; 1310nm	9.0 ± 0.3	µm
Mode field diameter; 1550nm	10.2 ± 0.4	µm
Core non-circularity	max. 6	%
Core/Cladding concentricity error	max. 0.4	µm
Cladding diameter	125.0 ± 0.5	µm
Cladding non-circularity	max. 0.6	%
Coating diameter, uncoloured	242 ± 5	µm
Coating diameter, coloured	254 ± 7	µm
Coating/Cladding concentricity error	max. 8	µm
Temperature sensitivity; -60°C to +85°C	max. 0.05	dB/km
Bending sensitivity - 10 turns around Ø30mm - 1550nm	max. 0.1	dB
Bending sensitivity - 10 turns around Ø30mm - 1625nm	max.0.3	dB
Bending sensitivity - 1 turn around Ø20mm - 1550nm	max.0.75	dB
Bending sensitivity - 1 turn around Ø20mm - 1625nm	max.1.5	dB
Proof test level	min. 0.69	Gpa
Fibre curl	min. 4	m
Cable cut-off wavelength	max. 1260	nm
Zero-dispersion wavelength	1300 - 1322	nm
Zero-dispersion slope	max. 0.090	ps/nm ² .km
Chromatic dispersion; 1285nm - 1330 nm	max. 3.0	ps/nm.km
Chromatic dispersion; 1550nm	max. 17.0	ps/nm.km
Chromatic dispersion; 1625nm	max. 21.0	ps/nm.km
Polarisation mode dispersion; maximum individual fibre	max. 0.1	ps/.km
Max. attenuation at 1383nm (α ₁₃₈₃) [note a]	<max. α ₁₃₁₀	dB/km
Effective Group Core Refractive Index; 1310 nm	1.465	-
Effective Group Core Refractive Index; 1550 nm	1.465	-
Effective Group Core Refractive Index; 1625 nm	1.465	-

note a: after hydrogen ageing