

## CTC ADSS

CTC ADSS - Outdoor, Aerial metallfree cable.

All Dielectric Self Supporting Cable in a central tube configuration with dry-waterblocking aramid yarns underneath the polyethylene outer sheath. This FttX-cable is intended for use as an aerial customer drop cable. This cable is designed for spans between approx. 30 and 150 mtrs, depending on installing and surroundings conditions, with the conditions from the NESC tables as a basis. For further information, please consult document Sag & Tension Calculations under characteristic 'Specification'.

Commercial information		Properties	Unit
Product group		Fibre optic cable	
Series		Fibre optic cable Single mode	
Type		CTC ADSS	
Description		8x SM G.652D	
Net weight		33	kg/km
Marking	ACE - TKF CTC ADSS 8 x SM G.652D A-DQ(ZN)2Y 77643 {Year} {Batch} {Length}		

Article number / standard length	EAN number	Properties	Unit
77643	8713182099206	Drum à 1	m

Construction		Properties	Unit
Standardization		IEC 60794-3-20	
Test procedures		IEC 60794-1-2	
Application		Outside	
Cable metal free		Yes	
Strain relief		Yes	
UV resistant		Yes	
Halogen free (acc. EN 50267-2-2)		Yes	
Longitudinal water blocking		Yes	
Number of fibres		8	
Number of fibres per tube		8	
Number of cores		1	
Type of tube		Loose tube, gel filled	
Fibre Type		Single mode	
Optical fibre standard		ITU-T G.652.D	
Type of strain relief		Aramid fibre	
Material outer sheath		PE	
Colour outer sheath		Black	



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Characteristics for use	Properties	Unit
Outer sheath thickness	1	mm
Outer diameter approx.	6.6	mm
Bending radius during installation	130	mm
Bending radius after installation	100	mm
Tensile load short term (Tm)	1350	N
Tensile load Long Term (TI)	600	N
Installation temperature	-10 / 50	°C
Operation temperature range	-40 / 70	°C
Transportation and storage temperature	-40 / 70	°C

Technical characteristics	Properties	Unit
Attenuation @ 1310 nm	0.4	dB/km
Attenuation @ 1550 nm	0.3	dB/km
Attenuation @ 1625 nm	0.4	dB/km
Crush resistance acc. meth.E3A	1500	N/dm
Impact strength	9	J
Striking surface radius	10	mm
Bending stiffness	0.04	Nm <sup>2</sup>
Torsion resistance	1800	°/m
Kink resistance	65	mm
Cross sectional area	33	mm <sup>2</sup>
Aramide content	28980	dTex
Effective E-modulus	7.8	GPa
Effective CTE	10.3	10 <sup>-6</sup> /°C

## Product information

# Product Characteristics - Optical fibres

Fibre:		
type of fibre	hydrogen passivated, dispersion unshifted, matched cladding singlemode fibre 9/125µm	
standard	IEC-60793-2-50, B1.3	
standard	ITU-T G.652.D*	

Characteristics:	Properties	Unit
Mode field diameter; 1310nm	9.2 ± 0.3	µm
Mode field diameter; 1550nm	10.4 ± 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. 12	µm
Temperature sensitivity; -60°C to +85°C	max. 0.05	dB/km
Bending sensitivity - 100 turns around Ø60mm - 1625nm	max. 0.05	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 <sup>2</sup> .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; PMD <sub>Q</sub>	max. 0.20	ps/√km
Attenuation at 1383nm (α <sub>1383</sub> ) [note a]	α <sub>1310</sub> - 0.03	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