

## LTC JF ADSS

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All Dielectric Self-Supporting Cable, metalfree, to be used under all dielectric circumstances. Because of its strong tensile members these cables are suitable for aerial applications without using additional strength members. This cable is suitable for span-lengths of 80 mtrs. (4,5kN), 120 mtrs. (5,8kN) or 180 mtrs. (6,5kN).

Commercial information		Properties	Unit
Product group		Fibre optic cable	
Series		Fibre optic cable Single mode	
Type		LTC JF ADSS	
Description		24x SM G.652D (6x4) 5800N	
Net weight		130	kg/km
Marking		ACE-TKF LTC JF ADSS-5800 N 24x SM G.652D A-DF2Y(ZN)2Y 69853 Jaarstempeling Ordernummerstempeling Meterstempeling	
Article number / standard length	EAN number	Properties	Unit
69853		Overig à 1	m
69853H X 4000/100		Drum à 4000	m
69853H X 6000/500		Drum à 6000	m

Construction	Properties	Unit
Standardization	IEC 60794-1-2	
Optical fibre standard	ITU-T G.652.D	
Longitudinal water blocking	Yes	
Strain relief	Yes	
UV resistant	Yes	
Cable metal free	Yes	
Application	Outside	
Number of fibres	24	
Type of tube	Loose tube, gel filled	
Number of cores	6	
Number of fibres per tube	4	
Fibre Type	Single mode	
Number of layers	1 Layer	
Material innersheath	HDPE	
Material outer sheath	HDPE	
Colour outer sheath	Black	

Characteristics for use	Properties	Unit
Inner sheath thickness	0.8	mm
Diameter over inner sheath (nom.)	9	mm
Outer sheath thickness	1.4	mm
Outer diameter approx.	12.7	mm
Bending radius during installation	255	mm
Bending radius after installation	190	mm
Tensile load	5800	N

Technical characteristics	Properties	Unit
Cable strain	0.8	%
Cross sectional area	127	mm <sup>2</sup>
Effective E-modulus	5.7	GPa
Effective CTE	25	10 <sup>-6</sup> /°C
Crush resistance	3000	N/dm
Type of sealing	Jelly	
Transportation and storage temperature	-30 / 70	°C
Installation temperature	-5 / 50	°C
Operation temperature range	-30 / 70	°C
Torsion resistance	180	°/m
Impact strength	5	J
Attenuation @ 1310 nm	0.36	dB/km
Attenuation @ 1550 nm	0.23	dB/km
Attenuation @ 1625 nm	0.25	dB/km

## 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 ± 0.5	µm
Mode field diameter; 1550nm	10.4 ± 0.6	µm
Core non-circularity	max. 6	%
Core/Cladding concentricity error	max. 0.6	µm
Cladding diameter	125.0 ± 0.7	µm
Cladding non-circularity	max. 1.0	%
Coating diameter, uncoloured	245 ± 5	µm
Coating diameter, coloured	250 ± 15	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 Ø50mm - 1550nm	max. 0.05	dB
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 - 1324	nm
Zero-dispersion slope	max. 0.093	ps/nm <sup>2</sup> .km
Chromatic dispersion; 1285nm - 1330 nm	max. 3.4	ps/nm.km
Chromatic dispersion; 1271nm - 1360nm	max. 5.3	ps/nm.km
Chromatic dispersion; 1550nm	max. 18	ps/nm.km
Chromatic dispersion; 1625nm	max. 22	ps/nm.km
Polarisation mode dispersion; PMD <sub>Q</sub>	max. 0.20	ps/√km
Attenuation at 1383nm (α <sub>1383</sub> ) [note a]	max. α <sub>1310</sub>	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