



Fibre optic cable
CTC ADSS

Article number: 77644

30-03-2022

Description

12x SM G.657.A1

The Central Tube Cable All Dielectric Self Supporting Cable (CTC ADSS) is an aerial central tube cable with low bend radius, no water peak G.657.A1 fibres and dry-water blocking 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'.



* This image may differ from the actual product.

Trading information

Product group	Fibre optic cable
Type	CTC ADSS
Net. Weight	39 kg/km
Sheath marking	ACE - TKF CTC ADSS 12x SM G.657.A1 (1x12) A-DQ(ZN)2Y 77644 {Batch} {Year} {Length}

Trade lengths

	Minimal order
(77644 / 8713182103385)	1 MTR



Fibre optic cable CTC ADSS

Article number: 77644

30-03-2022

Construction characteristics

Cable type	ADSS
Cable metal free	Yes
With strain relief	Yes
Type of strain relief	Aramid fibre
Longitudinal water blocking cable	Yes
Longitudinal water blocking	Yes
Colour outer sheath	Black
Outer diameter approx.	7.1 mm
Outer sheath thickness	1.3 mm
Material outer sheath	Polyethylene (PE)
Number of fibres	12
Number of cores	1
Number of fibres per tube	12

Properties

Application	Outside
Blow in	Yes
Type of tube	Loose tube, gel filled
Stripability optical element	> 1000mm, down to primary coating
Operational temperature range Ta1 - Tb1	-40 / 70 °C
Max. attenuation increase during Ta1 - Tb1	0.1 dB
TC sample length for TC acc F1 or F12	1,000 m
Installation temperature	-15 / 50 °C
Transportation and storage temperature	-40 / 70 °C



Fibre optic cable
CTC ADSS

Article number: 77644

30-03-2022

Technical characteristics

Standardization	EN IEC 60794-3-20
Test procedures	IEC 60794-1-2
Longitudinal watertight construction	Super Absorbing Polymer

Mechanical characteristics

Tensile load short term (T _m)	1,350 N
Tensile load long term (T _l)	600 N
Maximum Operational Tension (MOT)	600 N
Max. fibre elongation at MOT	0.2 %
Maximum Allowable Tension (MAT)	1,350 N
Max. fibre elongation at MAT	0.6 %
Breaking strength	5,500 N
Min. bending radius during installation	140 mm
Min. permitted bending radius, stationary application/permanent installation	105 mm
Crush resistance acc. meth.E3A	1,500
Impact strength	15 J
Striking surface radius	10 mm
Torsion resistance	360 °/m



Fibre optic cable CTC ADSS

Article number: 77644

30-03-2022

Optical characteristics

Fibre type	Single mode 9/125
Optical fibre standard	ITU-T G.657.A1
Fibre category	OS2
Max. attenuation @ 1310 nm	0.4 dB/km
Max. attenuation @ 1550 nm	0.3 dB/km
Max. attenuation @ 1625 nm	0.4 dB/km

Other characteristics/features

Halogen free according to EN 60754-1/2	Yes
Reaction-to-fire according to EN 13501-6: Class	Fca
UV resistant	Yes
Effective E-modulus	8.011
Effective CTE	16.9
Cross sectional area	34.1 mm ²