



CTC ADSS - Fibre optic cable

Article number: 77644

05-10-2015

Description

12x SM G.657.A1

CTC ADSS - Outdoor, Aerial metallfree cable.
All Dielectric Self Supporting Cable in a central tube configuration with low bend radius, no waterpeak G.657.A1 fibres and 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'.



Trading information

Product group	Fibre optic cable
Series	Fibre optic cable Single mode
Type	CTC ADSS
Net. Weight	40 kg/Km
Sheath marking	ACE - TKF CTC ADSS 12x SM G.657.A1 1x12 A-DQ(ZN)2Y 77644 {Batch} {Year} {Length}

Trade lengths

Reel à 1	(77644 / 8713182103385)
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Construction characteristics

Cable type	ADSS
Fibre type	Single mode
Optical fibre standard	ITU-T G.657.A1
Number of fibres	12
Number of fibres per optical element	12
Number of cores	1
Optical element	Loose tube, gel filled
Stripability optical element	> 1000mm, down to primary coating
Cable metal free	Yes
Strain relief	Yes
Material outer sheath	PE
Colour outer sheath	Black
Outer diameter approx.	6.6 mm

Properties

Application	Outside
Blow in	Yes

Technical characteristics

Standardization	IEC 60794-3-20
Test procedures	IEC 60794-1-2
Longitudinal water blocking	Yes
Longitudinal watertight construction	Super Absorbing Polymer
Installation temperature	-10 / 50 °C
Operation temperature range	-40 / 70 °C
Transportation and storage temperature	-40 / 70 °C
UV resistant	Yes
With rodent protection	Yes



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Mechanical characteristics

Tensile load short term (Tm)	1350 N
Tensile load Long Term (TI)	600 N
Bending radius after installation	100 mm
Bending radius during installation	135 mm
Crush resistance acc. meth.E3A	1500 N/dm
Impact strength	5 J
Torsion resistance	360 °/m

Optical characteristics

Category according to EN 50173	OS2 (IEC 60793-2: B1.3)
Attenuation @ 1310 nm	0.4 dB/km
Attenuation @ 1550 nm	0.3 dB/km
Attenuation @ 1625 nm	0.4 dB/km

Other properties

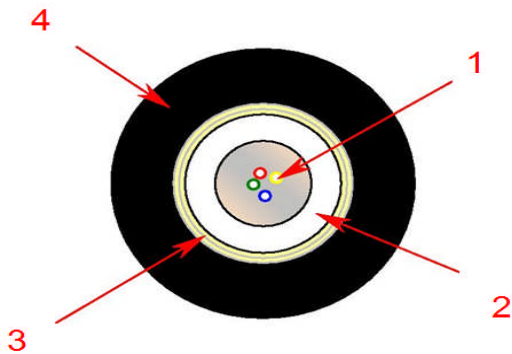
Halogen free (acc. EN 50267-2-2)	Yes
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Product informatie

Kabelconstructie en kleurcodering

CTC ADSS

Glasvezelkabel met centrale buis
Buiten toepassing: hangkabel



Omschrijving:

- 1 Glasvezels
- 2 Centrale buis met gel gevuld
- 3 Trekontlastingselement
- 4 Buitenmantel (PE)

Standaard kleuren:

	Vezel
Vezelnr.	Kleur
1	Rood
2	Groen
3	Blauw
4	Geel
5	Wit
6	Grijs
7	Bruin
8	Violet
9	Turquoise
10	Zwart
11	Oranje
12	Roze

Hangkabel; doorhang en trekkracht calculaties

	NESC-Licht		NESC-Midden		NESC-Zwaar	
	max 8	12	max 8	12	max 8	12
Glasvezel aantal	max 8	12	max 8	12	max 8	12
Installatiekracht	448 N	477 N	232 N	258 N	130 N	148 N
Installatiedoорhang	1%	1%	1%	1%	1%	1%
Max. paalafstand	110 m	100 m	57 m	54 m	32 m	31 m
Max. Trekkracht TM	1350 N	1350 N	1350 N	1350 N	1350 N	1350 N
Max. Doorhang	3,7%	3,5%	4,0%	3,9%	4,2%	4,1%
Kabel- & Vezelrek	0,50%	0,48%	0,49%	0,47%	0,48%	0,46%
Aantal glasvezels	max 8	12	max 8	12	max 8	12
Installatiekracht	267 N	286 N	131 N	148 N	73 N	82 N
Installatiedoорhang	2%	2%	2%	2%	2%	2%
Max. paalafstand	131 m	120 m	64 m	62 m	36 m	34 m
Max. Trekkracht TM	1350 N	1350 N	1350 N	1350 N	1350 N	1350 N
Max. Doorhang	4,4%	4,3%	4,6%	4,5%	4,6%	4,5%
Kabel- & Vezelrek	0,50%	0,48%	0,49%	0,48%	0,48%	0,46%
Aantal glasvezels	max 8	12	max 8	12	max 8	12
Installatiekracht	203 N	220 N	98 N	111 N	54 N	62 N
Installatiedoорhang	3%	3%	3%	3%	3%	3%
Max. paalafstand	149 m	137 m	72 m	69 m	40 m	38 m
Max. Trekkracht TM	1350 N	1350 N	1350 N	1350 N	1350 N	1350 N
Max. Doorhang	5,0%	4,9%	5,1%	5,1%	5,2%	5,1%
Kabel- & Vezelrek	0,50%	0,48%	0,49%	0,47%	0,48%	0,46%
	Eenheid	NESC-Licht	NESC-Midden	NESC-Zwaar		
Windsnelheid	m/s	26,5	17,7	17,7		
	km/h	95	64	64		
	mps	59	40	40		
Ijstdikte	mm	0	6,5	12,5		
	inch	0	0,25	0,50		
Additionele belasting	kg/m	0,073	0,296	0,449		
	lbs/ft	0,05	0,20	0,30		
Temperatuur	°C	-1	-10	-20		
	°F	30	15	0		

Product Characteristics - Optical fibres

Fibre:		
type of fibre	hydrogen passivated, dispersion unshifted, matched cladding bending loss insensitive singlemode fibre 9/125µm	
	Fully 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-a1	
standard	ITU-T G.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	248 ± 6	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 - 1324	nm
Zero-dispersion slope	max 0.090	ps/nm ² .km
Chromatic dispersion; 1285nm - 1330 nm	max 3.2	ps/nm.km
Chromatic dispersion; 1550nm	max 17	ps/nm.km
Chromatic dispersion; 1625nm	max 21	ps/nm.km
Polarisation Mode Dispersion; maximum individual fibre	max 0.1	ps/√km
PMD _Q	max 0.08	ps/√km
Max attenuation at 1383nm (α ₁₃₈₃) [note a]	< max α ₁₃₁₀	
Effective Group Core Refractive Index; 1310 nm	1.4671	-
Effective Group Core Refractive Index; 1550 nm	1.4675	-
Effective Group Core Refractive Index; 1625 nm	1.4680	-

note a: after hydrogen ageing