

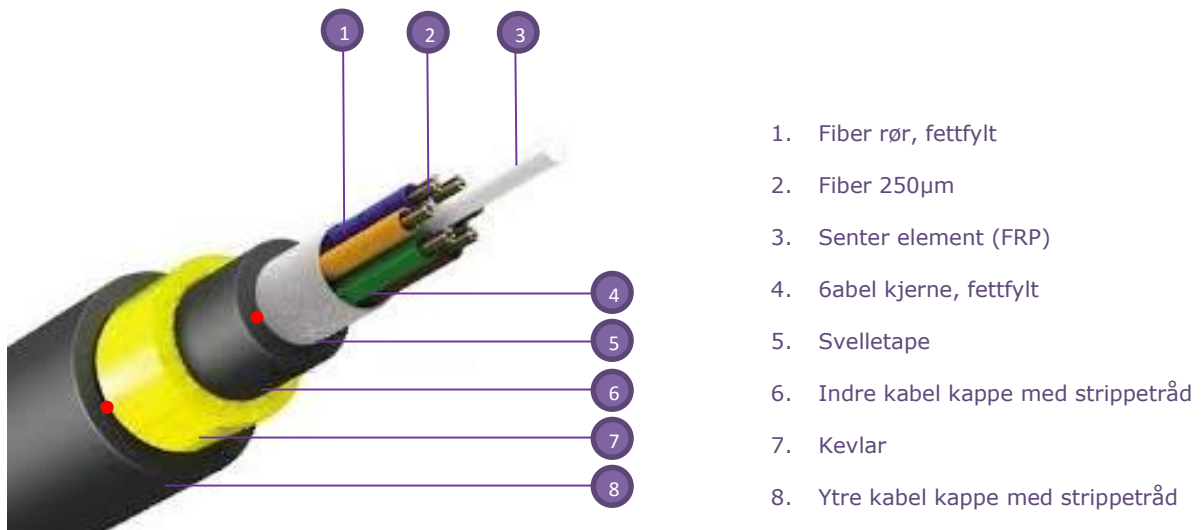


**METRIC**  
INDUSTRIAL

FibreCore  
ADSS 20kN



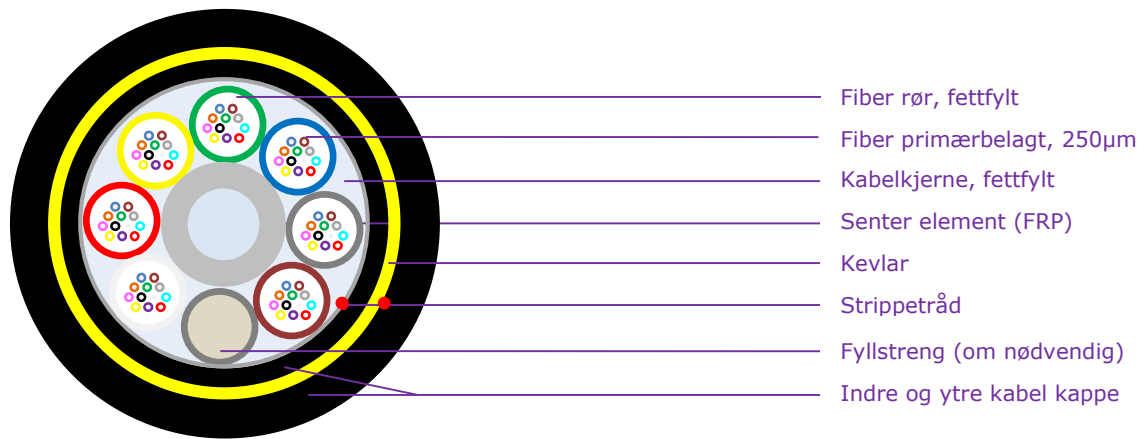
**FibreCore ADSS 20kN** er en metallfri selv bærende luftkabel beregnet for spennlengder inntil 300 mtr. (Avhengig av vind og islast). Kabelen egner seg også til installasjon i kanaler eller rør over kortere avstander. Kabelen er fettfylt og optiske fibre og fiber rør er fargekodet for enkel identifisering. Kabelen leveres med G.652D fiber som standard, men andre fibertyper kan leveres på forespørsel. Typisk bruksområde er telekommunikasjon for eksempel aksessnettutbygging eller tilførsel til fordelingspunkt ved FTTx utbygging



- 12 fiber per fiber rør
- Metallfri
- Dobbel kappe for ekstra styrke
- SM ITU-T G.652D fiber som standard. G.655, G.657 som opsjon
- UV stabilisert HDPE ytterkappe
- SZ stranding
- Fiber og fiber rør er fargekodet for enkel identifisering

#### **Standarder**

- IEC 60793
- IEC 60794
- ITU-T G.650
- ITU-T G.652
- Telcordia GR-20-CORE



### Kabel merking (Repeterende hver mtr.)

FIBRECORE-ADSS-20kN-ZZxG652D-YYYY-XXXX-\*\*\*\*M (ZZ: Fiberantall / YYYY: M ned r / \*\*\*\*: Meter)

For eksempel: FIBRECORE-ADSS-20kN-48xG652D-0213-3400M

#### Farge kode fiber

1	2	3	4	5	6	7	8	9	10	11	12
Hvit	Red	Gul	Gr�nn	Bl�	Gr�	Brun	Sort	Fiolett	Turkis	Orange	Rosa

#### Farge kode fiber r r

1	2	3	4	5	6	7	8	9	10	11	12
Hvit	Red	Gul	Gr�nn	Bl�	Gr�	Brun	Sort	Fiolett	Turkis	Orange	Rosa

Andre fargekoder tilgjengelig p  foresp rsel

#### Spesifikasjoner fiber ITU-T G.652D:

Attenuation		Before cable	After cable
		$\leq 0.34$ dB/km	$\leq 0.36$ dB/km
		$\leq 0.34$ dB/km	$\leq 0.36$ dB/km
		$\leq 0.20$ dB/km	$\leq 0.22$ dB/km
		$\leq 0.24$ dB/km	$\leq 0.25$ dB/km
Dispersion coefficient	1285 ~1340 nm	$\geq -3.4 \leq 3.4$ ps/(nm·km)	
	1550 nm	$\leq 18$ ps/(nm·km)	
	1625 nm	$\leq 22$ ps/(nm·km)	
Zero dispersion wavelength		1300 ~1324 nm	
Zero dispersion slope		$\leq 0.091$ ps/(nm <sup>2</sup> ·km)	
Cable cut-off wavelenength		$\leq 1260$ nm	
Polarization mode dispersion	Individual fibre	$\leq 0.15$ ps/�km	
	Design link value (M=20, Q=0.01%)	$\leq 0.1$ ps/�km	
Mode fireld diameter	1310nm	$9.1 \pm 0.4$ �m	
	1550nm	$10.4 \pm 0.5$ �m	
Cladding diamaaeter		$125.0 \pm 1$ �m	
Cladding non-circularity		$\leq 1.0$ %	
Core concentricity error	$\geq 100$ kpsi (0.69 GPa)	$\leq 0.6$ �m	
Coating diameter		245± 7 �m (Before Colored) 250 ± 15 �m (Colored)	
Coating/cladding concentricity error		$\leq 12$ �m $\geq 100$ kpsi (0.69 GPa)	

<b>Struktur/parameter</b>					
Fiber type (ITU-T)	G.652D som standard. G.655, G.657 som opsjon				
Fiber antall	24	48	72	96	144
Fiber per fiberrør	12	12	12	12	12
Fiberrør/fyllstrenger	2/4	4/2	6/0	8/0	12/0
Diameter fiberrør (mm)	2,35	2,35	2,35	2,35	2,35
Diameter kabel (mm)	14,00	14,00	14,00	14,00	15,00
Kappetykkelse indre/ytre nominell (mm)	1,1/1,8	1,1/1,8	1,1/1,8	1,1/1,8	1,1/1,8
Vekt nominell (kg/km)	155	158	160	180	220
Min. bøye dia.	20 x Diameter				
Maks strekk statisk (N)	10000	10000	10000	10000	10000
Maks strekk installasjon (N)	16000	16000	16000	16000	16000
Bruddlast (N)	20000	20000	20000	20000	20000
Spennlengde (m)	≤300				
Kappemateriale indre/ytre	LDPE/MDPE-HDPE (UV stabilisert)				
Temperatur transport/drift (°C)	-40 ~ +70				
Temperatur installasjon (°C)	-20 ~ +60				

### Test protokoll

Test	Standard	Parameters	Criteria
Installation Tension	IEC 60794-1-2-E1	1,5x weight	Additional attenuation: ≤0,1dB after test. No damage to outer jacket and inner elements
Short term crush	IEC 60794-1-2-E3	1000N, 100mm, 5min	Additional attenuation: ≤0,1dB after test. No damage to outer jacket and inner elements
Impact	IEC 60794-1-2-E4	Radius 300mm, Impact 15J	Additional attenuation: ≤0,1dB after test No damage to outer jacket and inner elements
Repeated bending	IEC 60794-1-2-E6	25N, 25 cycles	No obvious additional attenuation No damage on the cable
Torsion	IEC 60794-1-2-E7	40N, 5 cycles	$\Delta\sigma \leq 0,1\text{dB}$ , no damage
Coiling performance	IEC 60794-1-2-E20	Coil on standard drum	The outer sheath has no visible crack No damage on the cable
Temperature cycling	IEC 60794-1-2-F1	-40 ~ +70°C	≤0,05dB/km
Water penetration	IEC 60794-1-2-F5	Water column = 1mtr Sample cable = 3mtr	No water leak through the open end in 24 hours
Filling compound flow	IEC 60794-1-2-E14	70°C	No compound flow from the cable in 24 hours

Remark: Tests according to IEC 60794 Edition 1.0, 2008-10 All optical tests proceeded at 1550nm

### Bestillings informasjon

Art.nr.	Elnr.	Beskr.
G24-9/125 ADSS 20kN		G24 ADDS 20kN G.652D loose tube, gel, HDPE kappe
G48-9/125 ADSS 20kN		G48 ADDS 20kN G.652D loose tube, gel, HDPE kappe
G72-9/125 ADSS 20kN		G72 ADDS 20kN G.652D loose tube, gel, HDPE kappe
G96-9/125 ADSS 20kN		G96 ADDS 20kN G.652D loose tube, gel, HDPE kappe
G144-9/125 ADSS 20kN		G144 ADDS 20kN G.652D loose tube, gel, HDPE kappe