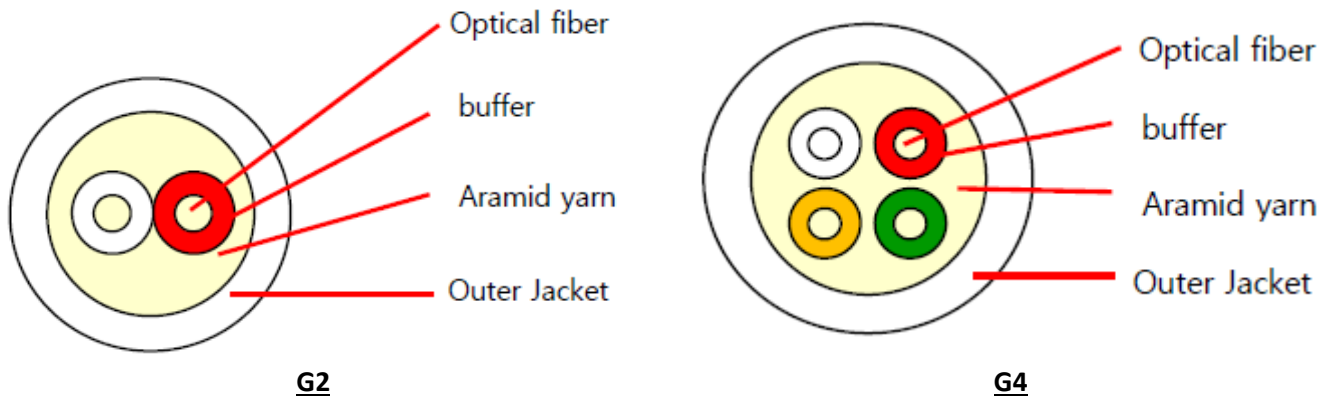


DT – G2-G4 Abonnent Fiberkabel (G657 A2)

Distribution Cable SMF(G657A2), 2C,4C



Technical Specification

Construction

Structure	Material	Specifications
Optical Fiber	Fiber	- SMF : G657 A2
Tight Buffer	Material	- FR-PE(LSZH)
	Diameter	- $0.90 \pm 0.05\text{mm}$
	Color	- 2C - 4C: White, Red, yellow, Green
Strength Member	Aramid yarn	- 2C, 4C: 12,000D
Jacket	Material	- FR-PE(LSZH), UV Protection
	Diameter	- Diameter: $4.7\text{mm} \pm 0.3$ - Jacket thickness 2C, 4C: $1.0 \pm 0.3\text{mm}$
	Color	White

Cable diameter & Tensile strength

Fiber Count	Outer Diameter	Weight (Nominal)	Max. Pulling Strength
	mm	Kg/km	N
2	4.7 ± 0.3	20	600
4	4.7 ± 0.3	23	600

Color Code of Fiber

1	2	3	4
White	Red	Yellow	Green

Optical Fiber Property

	Parameter	Specification
Optical Characteristics	Attenuation coefficient	
	@ 1310 nm	≤ 0.40 dB/km
	@ 1383 nm	≤ @1310 nm dB/km loss↓
	@ 1550 nm	≤ 0.30dB/km
	@ 1625 nm	≤ 0.35dB/km
	Attenuation vs. Wavelength Max. α difference	≤ 0.03dB/km at 1285 ~ 1330 nm
		≤ 0.02dB/km at 1525 ~ 1575 nm
	Zero-dispersion wavelength	1300 ~ 1324 nm
Geometrical Characteristics	Zero-dispersion slope	≤ 0.092 ps/(nm ² .km)
	PMD Maximum Individual Fiber	≤ 0.2 ps/km ^{1/2}
	Cable cut-off wavelength	≤ 1260 nm
	Mode field diameter @ 1310 nm	8.8 ± 0.4 um
	Cladding diameter	125.0 ± 0.7 um
	Cladding non-circularity	≤ 0.7 %
	Coating diameter	245 ± 5 um
	Coating-Cladding concentricity error	≤ 12.0 um
Mechanical Specification	Coating Non-circularity error	≤ 6.0 %
	Core-Clad concentricity error	≤ 0.5 um
	Curl (Radius)	≥4m
	Proof test level	≥100 kpsi
	Micro-bend induced attenuation	
	10 turns bend radius 15mm	≤0.03 dB at 1550 nm
	10 turns bend radius 15mm	≤0.1 dB at 1625 nm
	1 turn bend radius 10mm	≤0.1 dB at 1550 nm
	1 turn bend radius 10mm	≤0.2 dB at 1625 nm
	1 turn bend radius 7,5mm	≤0.2 dB at 1550 nm
	1 turn bend radius 7,5mm	≤0.5 dB at 1625 nm
	Coating strip force Average force	1.7 N

Cable Property

Mechanical & Environmental properties

Cable bending radius: 12mm (during operation)
12mm (during installation)

Operating temperature range : -20C to +70C

Installation temperature range : -10C to +60C

Mechanical & Environmental requirements

Item	Test Method	Specification
Tensile load IEC60794-1-E1	- Load: See "Cable diameter & Tensile strength" table - Length: 100 m - Time: 10 mins	-Loss change £ 0.1 dB @1550 nm (SM) £ 0.1 dB @1300 nm (SM)
Crush test IEC60794-1-E3	- Load: 500 N(1C~12c) - plate: 100*100 - Time: 5 mins.	-Loss change £ 0.1 dB @1550 nm (SM) £ 0.1 dB @1300 nm (SM)
Bending test IEC60794-1-E11A	- Mandrel dia. 15 x cable diameter - 6 turns	-Loss change £ 0.1 dB @1550 nm (SM) £ 0.1 dB @1300 nm (SM)
Impact test IEC60794-1-E4	- Radius of impacted surface: 25 mm - Impact load: 0.5 kg - Falling height: 150mm - times: 10	-Loss change £ 0.1 dB @1550 nm (SM) £ 0.1 dB @1300 nm (SM)
Torsion IEC60794-1-E7	- Length: 2 m - Load: 50 N - Twist angle: ±180° - No. of cycle: 5	-Loss change £ 0.1 dB @1550 nm (SM) £ 0.1 dB @1300 nm (SM)
Temperature Cycling IEC60794-1-F1	- Length: 1,000m: - Temperature cycle: - Indoor: 20C→-20C→+70C→-20C→+70C→20C - Outdoor: 20C→-40C→+70C→-40C→+70C→20C - Number of cycles: 1 - Time per step: 12 hours	-Loss change £ 0.1 dB @1550 nm (SM) £ 0.3 dB @1300 nm (SM)
Flame Retardant test	According to IEC 332-3-24 standard	

Ordering Information

Art.Nr:	Beskrivelse
7925	G2 Abonnent Fibrkabel (G657 A2), tr a 500m
7923	G4 Abonnent Fibrkabel (G657 A2), tr a 500m