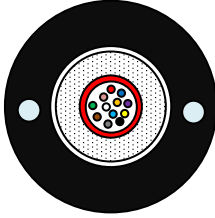


1. Application / Construction

| | | | |
|---------------------------------|---|-----------------------------|---------------------------|
| Identification | GYFXT6P-4 G.652D | | |
| Application | Duct Installation Cable | | |
| Cross Section (not to scale) | 4 fibers  | | |
| Configuration | <ul style="list-style-type: none"> - Micro module with up to 4 optical fibres and jelly inside - Easy to strip the micro module - 2 Parallel strength members (FRP) in the cable sheath - Cable strand: dry, with water blocking yarns and water blocking tape - Glass yarns as additional strength member - Outer sheath: Black PE, UV proof | | |
| Temperature Range | Storage and transport -30 to +70°C | Installation -5 to +50°C | Operation -20 to +60°C |
| Standards | IEC 60793-1, IEC 60793-2, IEC 60794-3-10, ITU-T G.652 | | |
| ZTT Specification | 21-116461-1-C | | |
| Customer Reference | 3424011121 | | |

2. Dimensions

| | | |
|------------------------|----|----------|
| Number of fibers | | 4 |
| Fiber No. per module | | 4 |
| No. of micro module | | 1 |
| Outer sheath thickness | mm | Min. 1.3 |
| Outer diameter (±5%) | mm | 6.6 |
| Weight/km | kg | 30 |

Note: sizes and values without tolerances are nominal values

3. Mechanical Properties

| | |
|-------------------------------|-------------|
| Max. tensile load (N) | 600 |
| Crush resistance (N/10cm) | 1000 |
| Bending radius (installation) | 20x cable Ø |
| Bending radius (operation) | 10x cable Ø |

See Point 7: Test Methods

4. Marking

| | | | | |
|--------------|-----|-------|------|--------|
| Fiber Colors | 1 | 2 | 3 | 4 |
| | red | green | blue | yellow |

| | |
|------------|-----|
| Tube Color | 1 |
| | red |

Outer Sheath: black, ink jet or hot print, marking in 1 meter intervals as follows (for example):

telephone handset HT SVK <number of fibers> ZTT 2021 xxxxM

5. Optical Fiber

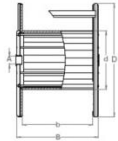
| Standard | ITU-T G.652D ZTT-ALF® | | |
|------------|--|--|-----------------------------|
| Optical | Fibre attenuation .. cabled | @ 1310 nm ≤0.38 dB/km | @ 1550 nm ≤0.23 dB/km |
| | Refractive index profile | Step | |
| | Mode field diameter (MFD) | 9.2 ± 0.5 μm | - |
| | Zero dispersion wavelength | 1300~1324 nm | |
| | Zero dispersion slope | ≤0.092 ps/nm ² ·km | |
| | Dispersion coefficient | @ 1310 nm ≤3.5 ps/nm.km | @ 1550 nm ≤19.0 ps/nm.km |
| | PMD individual value | ≤0.2 ps/√km | |
| | Cut-off wavelength | ≤1260 nm | |
| | Macro bending loss .. 100 turns Ø60 mm | @1550 nm ≤0.05 dB | @1625 nm ≤0.10 dB |
| Geometric | Cladding diameter | 125 ± 1.0 μm | |
| | Coating Diameter | 250 ± 15 μm | |
| | Core/clad concentricity error | Max. individual value: 1μm Max. average value: ≤0.5μm | |
| | Cladding non-circularity | ≤1.0 % | |
| Mechanical | Proof stress | ≥0.69 Gpa | |

6. Test Methods

| Test | Conditions | Acceptance criteria |
|---|---|---|
| Tensile strength IEC 60794-1-2 E1 | Tensile strength: see Point 3 Length: ≥ 50 m, Duration: 1 min | - Fiber strain: ≤0.6%, Δα ≤0.15dB - Δα reversible after test |
| Crush resistance IEC 60794-1-2 E3 | Crush: see Point 3 Test duration: 1 min, test number: 3 | - Δα ≤0.05dB after test - No damage |
| Impact IEC 60794-1-2 E4 | Impact energy: 3J R = 10 mm, number of places: 3 | - Δα ≤0.05dB after test - No damage |
| Repeated bending IEC 60794-1-2 E6 | Bending radius: 20x cable Ø 25 cycles | - Δα ≤0.05dB after test - No damage |
| Torsion IEC 60794-1-2 E7 | Sample length: 2 m ± 180°, 10 cycles | - Δα ≤0.05dB after test - No damage |
| Bend IEC 60794-1-2 E11A | Bending radius: 10x cable Ø 3 turns, 3 cycles | - Δα ≤0.05dB after test - No damage |
| Temperature cycling IEC 60794-1-2 F1 | -20°C → +60°C 4 hours at each step, 2 cycles | - Δα ≤0.15dB/km and reversible |
| Water penetration IEC 60794-1-2 F5 | Sample length: 3 m Water column height: 1 m Test duration: 24 h | - No leakage from outside of modules |

All optical measurements at 1550 nm

7. Logistics

| Cable type | Length Tolerance | 4km -1% / +3% |  D*d*B in cm |
|------------------|-----------------------------------|-----------------------------|--|
| GYFXT6P-4 G.652D | Drum Type Dimensions Weight | Wood 100*60*75 179 kg | |

Dimensions including protection. Indicative values, actually delivered drum sizes and weights may deviate. Cable ends sealed with caps

| C | May 06, 2022 | John | Erica | Xue Zhaojian | Update fiber characteristics |
|---------|--------------|----------|----------|--------------|------------------------------|
| B | Feb 19 2021 | John | Erica | Xue Zhaojian | Update cable construction |
| A | Feb 02 2021 | John | Erica | Xue Zhaojian | |
| Version | Date | Prepared | Reviewed | Approved | Remarks |