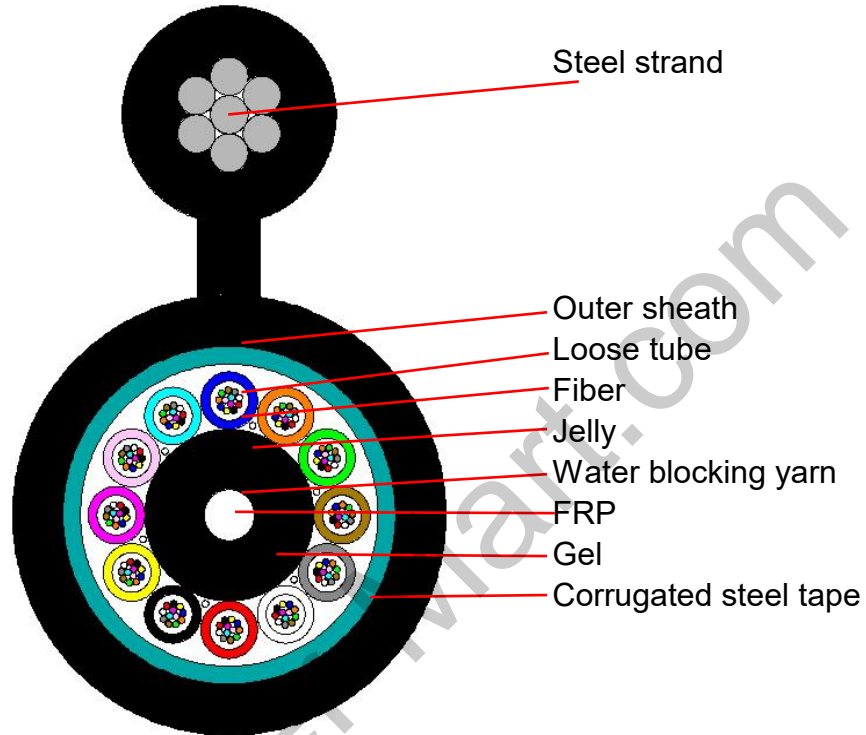


GYTC8S 12-144F PE Black

1. Cable structure:



2. Cable construction details :

| Items | | Description | | | | |
|---------------------------|--------------|-----------------------------|-----|----|----|-----|
| Fibertype | | G652D | | | | |
| Number of fiber | | 12 | 48 | 72 | 96 | 144 |
| Number of fibers per tube | | 6 | 12 | | | |
| Number of loose tube | | 2 | 4 | 6 | 8 | 12 |
| Number of fillers | | 3 | 1 | 0 | | |
| Loose tube | Diameter(mm) | 1.6 | 2.0 | | | |
| | Material | PBT | | | | |
| Self support messenger | Material | Steel strand (1.0mm*7-3.0) | | | | |
| Central strength member | Material | FRP | | | | |
| Filler rod | Material | PP or PE | | | | |
| Water blocking system | Material | Water blocking yarn and Gel | | | | |
| Armoring | Material | Corrugated steel tape | | | | |
| | Material | PE | | | | |

| | | | | | | |
|--------------------------------|--------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|
| Outer sheath | Color | Black | | | | |
| | Diameter(mm) | (5.0±0.3) * (8.6±0.5) | (5.0±0.3) * (9.6±0.5) | (5.0±0.3) * (10.5±0.5) | (5.0±0.3) * (12.2±0.5) | (5.0±0.3) * (14.9±0.5) |
| Storage or transportation (°C) | | -40+70 | | | | |
| Working temperature (°C) | | -30+70 | | | | |
| Installation temperature (°C) | | -5+50 | | | | |
| Maximum traction capacity | | 3500N | | | | |
| Crushing resistance | | 2000N / 10cm | | | | |
| Min Bending Radius(mm) | | operating:20D | | | | |
| | | installation:10D | | | | |

3. Tube and fiber color

| | | | | | |
|------|--------|--------|--------|------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| Blue | Orange | Green | Brown | Grey | White |
| 7 | 8 | 9 | 10 | 11 | 12 |
| Red | Black | Yellow | Violet | Pink | Aqua |

4. Fiber characteristic

| Characteristics | Conditions | Specified Values | Unit |
|--|-------------|------------------|------------------------|
| attenuation | 1310nm | ≤0.36 | dB/KM |
| | 1550nm | ≤0.25 | dB/KM |
| attenuation vs.Wavelength Max. difference | 1285-1330nm | ≤0.03 | dB/KM |
| | 1525-1575nm | ≤0.02 | dB/KM |
| Zero dispersion wavelength | | 1312 ± 10 | nm |
| Zero dispersion slope | | ≤0.090 | ps/nm ² .km |
| PMD | | - | |
| Maximum Individual Fiber | | ≤0.2 | ps/√km |
| Link Design Value (M=20,Q=0.01%) | | ≤0.1 | ps/√km |
| Typical value | | 0.04 | ps/√km |
| Cable cutoff wavelength λ _∞ | | ≤1260 | nm |
| Mode field diameter (MFD) | 1310nm | 9.2±0.4 | um |
| | 1550nm | 10.4±0.5 | um |
| Effective group index of refraction | 1310nm | 1.466 | - |
| | 1550nm | 1.467 | - |
| Point discontinuities | 1310nm | ≤0.05 | dB |
| | 1550nm | ≤0.05 | dB |
| Geometrical Characteristics | | | |
| Cladding diameter | | 124.8±0.7 | um |
| Cladding non-circularity | | ≤0.7 | % |
| Coating diameter | | 254±5 | um |
| Coating-cladding concentricity error | | ≤12.0 | um |

| | | |
|-----------------------------------|------------|----|
| Coating non-circularity | ≤ 6.0 | % |
| Core-cladding concentricity error | ≤ 0.5 | um |
| Curl (radius) | ≥ 4 | m |

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