



**RFS' HYBRIFLEX™** Multi-purpose backbone cable use multi-fiber subunits as optical communication medium, Ø900µm tight buffer fiber wrapped with a layer of aramid yarn as strength member for subunits. A fiber reinforced plastic (FRP) locates in the center of core as a non-metallic strength member. The subunits are stranded around the cable core. the cable is completed with LSZH jacket.

#### FEATURES / BENEFITS

- Backbone distribution cable in buildings
- Any purpose indoor cable distribution
- Multi optical fiber jumper
- Tight buffer fibre easy of stripping
- Aramid yarn and non-metallic strength member make cable have excellent tensile strength
- Easy to installation and harmless to environment etc.
- Excellent flame-retardant performance,LSZH jacket meet IEC 60332-3C
- 24-36 Cores, other jacket colors and standard are customized

1. Tight buffer fiber
2. Aramid yarn
3. Jacket



Example FONT-01x12SA1-F00

## Technical features

#### STRUCTURE

|                     |  |                                                                                                             |
|---------------------|--|-------------------------------------------------------------------------------------------------------------|
| Cable Type          |  | Fiber optic cable                                                                                           |
| Optical Fiber Color |  | 1. White 2. Blue 3. Orange 4. Green 5. Brown 6. Grey 7. Red 8. Black 9. Yellow 10. Violet 11. Pink 12. Aqua |

#### MECHANICAL SPECIFICATIONS

|                              |  |                 |
|------------------------------|--|-----------------|
| Crush Resistance (Operating) |  | 1000 N / 100 mm |
|------------------------------|--|-----------------|

#### CABLE JACKET

|                 |  |             |
|-----------------|--|-------------|
| Jacket Material |  | LSZH Yellow |
|-----------------|--|-------------|

#### F/O CABLE SPECIFICATIONS

|                                 |         |                                                |
|---------------------------------|---------|------------------------------------------------|
| F/O Cable Type                  |         | Single-Mode G657A1                             |
| Core/Clad                       | µm      | 9 /125                                         |
| Secondary Protection Nominal    | µm (in) | 240 ( )                                        |
| Single Bending Radius           | mm (in) | 10 (0.394)                                     |
| Fiber Attenuation               |         | Max: ≤ 0.5dB/km@λ=1310nm & ≤0.4dB/km λ =1550nm |
| Zero Dispersion Slope           |         | ≤0.092 ps/km nm                                |
| Dispersion (1285 - 1340 nm)     |         | -3.5 ~ 3.5ps/(nm km)                           |
| Mode Field Diameter (@ 1310 nm) |         | 8,8                                            |
| Cutoff wavelength cable         |         | ≤1260 nm                                       |

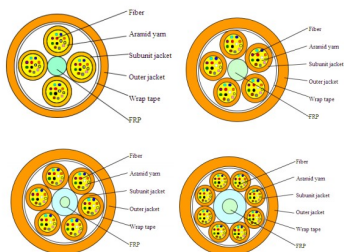
#### TESTING AND ENVIRONMENTAL

|                          |         |                        |
|--------------------------|---------|------------------------|
| Storage Temperature      | °C (°F) | -20 to 60 (-4 to 140 ) |
| Operation Temperature    | °C (°F) | -20 to 60 (-4 to 140 ) |
| Installation Temperature | °C (°F) | -20 to 60 (-4 to 140 ) |
| LSZH Specification       |         | IEC 60332-3C           |



## ADDITIONAL INFORMATION

|                              | FONT-01x12SA1-F00 | FONT-04x06SA1-F00 | FONT-04x12SA1-F00 | FONT-08x12SA1-F00 | FONT-12x12SA1-F00 |
|------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Number of Fiber              | 12                | 24                | 48                | 96                | 144               |
| Number of Subunits           | 0                 | 4                 | 4                 | 8                 | 12                |
| Number of Fiber per Subunit  | 12                | 6                 | 12                | 12                | 12                |
| Subunit Diameter             | ---               | 4 mm              | 5 mm              | 5 mm              | 5 mm              |
| Outer Diameter Cable         | 6.2 mm            | 12.3 mm           | 14.8 mm           | 20.7 mm           | 24.8 mm           |
| Cable Weight kg / km         | 37                | 131               | 184               | 391               | 455               |
| Cable Bending Radius Inst.   | 124 mm            | 246 mm            | 296 mm            | 414 mm            | 496 mm            |
| Cable Bending Radius Oper.   | 62 mm             | 123 mm            | 148 mm            | 207 mm            | 248 mm            |
| Cable Tensile Strength Inst. | 660 N             | 660 N             | 1320 N            | 1320 N            | 1320 N            |
| Cable Tensile Strength Oper. | 200 N             | 200 N             | 400 N             | 400 N             | 400 N             |



External Document Links

Notes