

Multi Purpose Distribution Cable

MPC

Description

02 ~ 12 fibers, $\Phi 900 \mu\text{m}$ or $\Phi 600 \mu\text{m}$ Tight buffer fiber,
Aramid yarn, PVC Jacket.



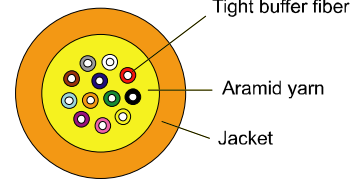
02-12 fibers

Part Number: 41004-NN-TP-MT

NN: Fiber core number

TP: Fiber Type (06 means 62.5/125 μm OM1; 05 means
50/125 μm OM2; 09 means 9/125 μm OS1)

MT: Material Type (V: PVC)



Standards

Comply with Standard YD/T 1258.4-2005, IECA-596, GR-409,
IEC 794, etc; and meet the requirements of UL approval for OFNR

| Cable Code | MPC-02 | MPC-04 | MPC-06 | MPC-08 | MPC-10 | MPC-12 |
|----------------------|--------------------------|----------------|----------------|----------------|----------------|----------------|
| Cable Diameter (mm) | 4.1 ± 0.25 | 4.1 ± 0.25 | 4.1 ± 0.25 | 4.1 ± 0.25 | 4.1 ± 0.25 | 4.1 ± 0.25 |
| Cable Weight (kg/km) | 11.0 | 18.4 | 22 | 24 | 27 | 31 |
| TBF Diameter | $900 \pm 50 \mu\text{m}$ | | | | | |

Machanical Characteristics

| | | |
|------------------|------------|-------------------------|
| Tensile Strength | Long term | 200 N |
| | Short term | 660 N |
| Crush Resistance | Long term | 300 N / 100mm |
| | Short term | 1000 N / 100mm |
| Bending Radius | Dynamic | 20 x D (Cable Diameter) |
| | Static | 10 x D (Cable Diameter) |



Optical Characteristics

| | | 50/125 μ m | 62.5/125 μ m | G.652 | G.655 |
|---|-----------|----------------------|----------------------|---------------------|---------------------|
| Attenuation (+20°C) | @ 850 nm | ≤ 3.5 dB / km | ≤ 3.5 dB / km | | |
| | @ 1300 nm | ≤ 1.5 dB / km | ≤ 1.5 dB / km | | |
| | @ 1310 nm | | | ≤ 0.45 dB / km | ≤ 0.50 dB / km |
| | @ 1550 nm | | | ≤ 0.30 dB / km | ≤ 0.50 dB / km |
| Bandwidth (Class A) | @ 850 nm | ≥ 500 MHz- km | ≥ 200 MHz- km | | |
| | @ 1300 nm | ≥ 1000 MHz- km | ≥ 600 MHz- km | | |
| Numerical Aperture | | 0.200 ± 0.015 NA | 0.275 ± 0.015 NA | | |
| Cable Cut-off Wavelength | | | | ≤ 1260 nm | ≤ 1480 nm |
| Attenuation at temperature cycling (-20°C ~ +85°C) | @ 1300 nm | ≤ 0.50 dB / km | ≤ 0.50 dB / km | | |
| | @ 1550 nm | | | ≤ 0.20 dB / km | ≤ 0.20 dB / km |

Environmental Characteristics

| | |
|--------------------------|---------------|
| Transport Temperature | -20°C ~ +60°C |
| Storage Temperature | -20°C ~ +60°C |
| Installation Temperature | -5°C ~ +50°C |
| Operating Temperature | -20°C ~ +60°C |

