



Zhendong Fiber Optic Cable Technology Co. Ltd  
 Building A, Sunshine International Center, Lianyung District,  
 Lianyungang City Jiangsu Province, China  
 Tel:+86 518 82301218  
 Fax:+86 518 82303668

## METAL-FREE DILELECTRIC DROP FIBER OPTIC CABLE

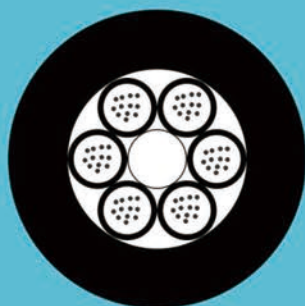
### APPLICATION

- Trench and duct installation
- Backbone and Access Network
- Metal free and dielectric
- Light weight
- Comply with IEC 60794-3-10

MFDD CABLE

### Construction

|                    |                                                                   |
|--------------------|-------------------------------------------------------------------|
| CENTER             | Fiber reinforce plastic strength member, sometimes sheath with PE |
| LOOSE TUBE         | PBT(Polybutylene Terephthalate) filled with thixotropic gel       |
| FIBERS             | 6 or 12 color coded fibers per tube                               |
| WATER BLOCKING     | 100% core filling                                                 |
| RIPCORD (OPTIONAL) | 2 spaced 180°                                                     |
| OUTER SHEATH       | Polyethylene (Black sheath and UV resistant)                      |



### MECANICAL PROPERTIES

| NO. OF FIBERS | NO. OF ELEMENT | CABLE DIAMETER NOMINAL (MM) | CABLE WEIGHT (KG/KM) | MAXIMUM ALLOWED TENSION(N) | MAXIMUM ALLOWED CRUSH (N/10cm) | BENDING RADIUS |            | WORKING TEMPERATURE |
|---------------|----------------|-----------------------------|----------------------|----------------------------|--------------------------------|----------------|------------|---------------------|
|               |                |                             |                      |                            |                                | LONG TERM      | SHORT TERM |                     |
| ≤24           | 6              | 9.9                         | 82                   | 1500                       | 1000                           | 20*OD          | 10*OD      | -40℃ ~ +70℃         |
| 48            | 6              | 10.7                        | 109                  | 1500                       | 1000                           | 20*OD          | 10*OD      | -40℃ ~ +70℃         |
| 72            | 6              | 12.2                        | 115                  | 1500                       | 1500                           | 20*OD          | 10*OD      | -40℃ ~ +70℃         |
| 96            | 8              | 13.6                        | 125                  | 1500                       | 3000                           | 20*OD          | 10*OD      | -40℃ ~ +70℃         |
| 144           | 12             | 16.8                        | 179                  | 1500                       | 3000                           | 20*OD          | 10*OD      | -40℃ ~ +70℃         |

Note:  
 The cable can carry maximum 288 core. It's available upon request.



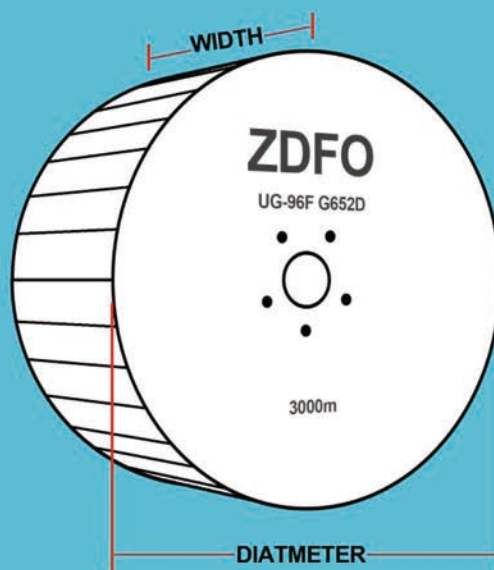
Zhendong Fiber Optic Cable Technology Co. Ltd  
Building A, Sunshine International Center, Lianyung District,  
Lianyungang City Jiangsu Province, China  
Tel:+86 518 82301218  
Fax:+86 518 82303668

## COLOR CODING FOR FIBER AND BUFFER TUBE AS PER TIA/EIA

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

## PACKAGING

| NO. OF FIBERS | SUPPLYING LENGTH (M) | DRUM SIZE    |           | GROSS WEIGHT (KG) |
|---------------|----------------------|--------------|-----------|-------------------|
|               |                      | DIAMETER(MM) | WIDTH(MM) |                   |
| ≤24           | 2000                 | 900          | 720       | 196               |
|               | 3000                 | 1000         | 720       | 287               |
|               | 4000                 | 1050         | 720       | 373               |
| 48            | 2000                 | 950          | 720       | 244               |
|               | 3000                 | 1050         | 720       | 354               |
|               | 4000                 | 1100         | 720       | 462               |
| 72            | 2000                 | 1000         | 720       | 269               |
|               | 3000                 | 1100         | 720       | 392               |
|               | 4000                 | 1200         | 720       | 526               |
| 96            | 2000                 | 1050         | 720       | 300               |
|               | 3000                 | 1200         | 720       | 430               |
|               | 4000                 | 1300         | 720       | 583               |
| 144           | 2000                 | 1250         | 720       | 428               |
|               | 3000                 | 1400         | 720       | 637               |



## FIBER TYPES FOR THE CABLE AS PER ITU-T STANDARDS

|              |             |               |               |
|--------------|-------------|---------------|---------------|
| ITU-T G.652D | ITU-T G.655 | ITU-T G.657A1 | ITU-T G.657A2 |
|--------------|-------------|---------------|---------------|

## ORDER INFORMATION

| NUMBER OF FIBERS | FIBER TYPE   | CABLE TYPE | SUPPLYING LENGTH | PURCHASING QUANTITY |
|------------------|--------------|------------|------------------|---------------------|
| 24               | ITU-T G.652D | MFDD       | 3000M            | 30000M              |