

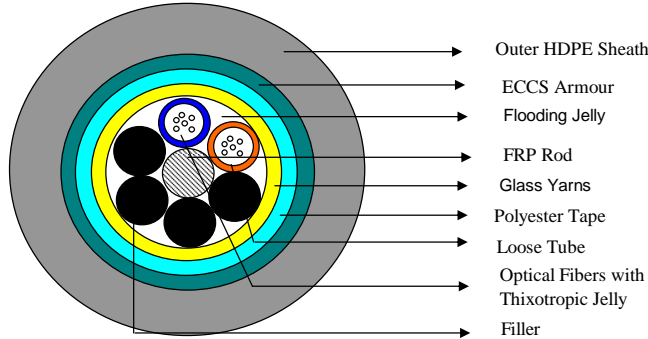
12 Fiber Single Mode Multitube Fiber Optic Cable Part No. 1-2225412-4



DATA SHEET

CABLE DESCRIPTION

- 1 9/125 micron Single-mode Armored Optical Fiber cables
- 2 Designed with a Loose tube construction
- 3 Tubes are gel filled to ensure protection against moisture ingress
- 4 Designed for use in the following applications like Backbone cabling, Campus site cabling & Outdoor Ducts or Direct Burial applications
- 5 Cable contains upto 12 Fibers
- 6 Each loose tube contain 6 Optical Fibers
- 7 ECCS Armour
- 8 Central Strength - FRP Rod
- 9 HDPE Sheath



| SL.No. | PARAMETER | UNIT | SPECIFICATIONS |
|--------|----------------------------------|------------|---|
| 1 | TYPE OF CABLE | | 12F MULTITUBE ARMOURED OPTICAL FIBER CABLE |
| 2 | STANDARDS | | |
| a) | EN 50173; ISO/IEC 11801 | | YES |
| b) | ANSI/TIA-568-C.3 | | YES |
| c) | Telcordia GR-409 | | YES |
| 3 | FIBER | | SINGLE MODE FIBER |
| a) | FIBER SIZE | um | 9/125/250 (OS2) |
| b) | No. OF FIBERS / LOOSE TUBE | No. | 6F |
| c) | FIBER IDENTIFICATION | | |
| | 6F | | Blue, Orange, Green, Brown, Grey & White |
| 4 | OPTICAL PARAMETERS - SM | | |
| a) | ATTENUATION @ 1310nm | dB/Km | ≤ 0.34 (MAX) |
| b) | ATTENUATION @ 1550nm | dB/Km | ≤ 0.22 (MAX) |
| c) | ATTENUATION @ 1380 - 1386nm | dB/Km | ≤ 0.31 (MAX) |
| d) | POINT DISCONTINUITY | dB | ≤ 0.1 |
| e) | CUT-OFF WAVELENGTH | nm | ≤ 1260 |
| f) | CHROMATIC DISPERSION @ 1310 nm | ps/nm x km | ≤ 3.5 |
| g) | CHROMATIC DISPERSION @ 1550 nm | ps/nm x km | ≤ 18 |
| h) | CORE/MODE-FIELD | um | 9 |
| i) | CLADDING | um | 125 |
| j) | COATING | um | 250 |
| 5 | LOOSE TUBE / TIGHT BUFFER | | LOOSE TUBE |
| a) | MATERIAL | | PBTP |
| b) | No. OF LOOSE TUBES | No. | 2 |
| c) | DIAMETER | mm | 3±0.2 |
| d) | COLOUR OF LOOSE TUBE | | BLUE & ORANGE |
| e) | SEQUENCE OF ELEMENTS IN CORE | | BL , OR LOOSE TUBES, BK1, BK2, BK3 & BK4 FILLERS |
| f) | LOOSE TUBE GEL | | WATER BLOCKING GEL |
| g) | CORE WRAPPING | | SINGLE LAYER OF POLYESTER TAPE |
| 6 | JACKETING | | |
| a) | MATERIAL | | HDPE |
| b) | COLOUR | | BLACK |
| c) | NOMINAL THICKNESS | mm | 2.0 |
| d) | OVERALL DIAMETER (NOMINAL) | mm | 15.5 |
| 7 | STRENGTH MEMBERS | | YES |
| a) | TYPE (Peripheral) | | WATER BLOCKING E-GLASS |
| b) | TYPE (Central) | | FRP ROD |
| 8 | ARMOURING | | |
| a) | TYPE | | ECCS TAPE |
| b) | MS TAPE THICKNESS | | > 0.15 |
| 9 | MECHANICAL PROPERTIES | | |
| a) | MINIMUM INSTALLATION BEND RADIUS | mm | 310 |
| b) | MINIMUM SERVICE BEND RADIUS | mm | 248 |
| c) | CABLE WEIGHT (NOMINAL) | Kg/Km | 215 |
| d) | STANDARD LENGTH | Mtrs | 2KM±5% |
| e) | TENSILE STRENGTH | N | 4000 |
| f) | MAXIMUM CRUSH RESISTANCE | N | 4000 |
| g) | OPERATING TEMPERATURE | deg C | -20 to +70 |
| h) | TYPE OF PACKING | | WOODEN DRUM |
| 10 | PRINTING DETAILS | | ADC F.O CABLE 1-2225412-4 ECCS GEL LOOSE TUBE 12X9/125 SMF HDPE (ML)XXXX/YY/ZZ MMMM |

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