

# AKSH OPTIFIBRE LIMITED

**PART No.: A-24/SM/UT(2F)-MFP-B8.6**

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**CABLE TYPE: 24F SM G652D FLAT TYPE AERIAL OPTICAL FIBRE CABLE**

## DESIGN & DATA SPECIFICATION SHEET

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### 1. FIBRE PROPERTIES

|                                   |                        |                             |
|-----------------------------------|------------------------|-----------------------------|
| ATTENUATION @ 1310 nm             | dB/km                  | < 0.36 Max & < 0.34 Average |
| @ 1550 nm                         |                        | < 0.24 Max & < 0.22 Average |
| CHROMATIC DISPERSION 1285-1330 nm | ps/nm.km               | < 3.5                       |
| At 1550 nm                        |                        | < 18.0                      |
| ZERO DISPERSION WAVELENGTH        | nm                     | 1300 to 1324                |
| ZERO DISPERSION SLOPE             | ps/nm <sup>2</sup> .km | < 0.092                     |
| CUT OFF WAVELENGTH                | nm                     | < 1260                      |
| POLARISATION MODE DISPERSION      | ps/root km             | < 0.2                       |
| MODE FIELD DIAMETER at 1310 nm    | um                     | 9.3 + 0.5                   |
| CORE- CLAD CONCENTRICITY ERROR    | um                     | < 0.8                       |
| CLADDING NON CIRCULARITY          | %                      | < 1.0                       |
| CLADDING DIAMETER                 | um                     | 125 + 1.0                   |
| COATING DIAMETER                  | um                     | 245 + 10                    |

### 2. MECHANICAL & ENVIRONMENTAL PROPERTIES

|   |   |                    |
|---|---|--------------------|
| A. MAX. OPERATING TENSION                     | : | 500 Newton         |
| MAX INSTALLATION TENSION                      | : | 1000 Newton        |
| B. CRUSH RESISTANCE                           | : | 2000 Newton/10 cm  |
| C. MINIMUM BENDING RADIUS---                  | : | 100 mm             |
| TEMPERORY                                     | : | PERMENANT          |
|   | : | 200 mm             |
| D. MAX. OPERATING/ INSTALLATION TEMPERATURE : |   | - 30 °C to + 70 °C |

### 3. PHYSICAL & DIMENSIONS PROPERTIES

|  |   |
|--|---|
| NO. OF FIBRES                              | <b>24F</b>  |
| NO. OF LOOSE TUBES                         | 2 (12 Fibre Each)   |
| COLOUR OF LOOSE TUBE                       | BLUE & ORANGE   |
| COLOUR OF FIBRE                            | BLUE, ORANGE, GREEN, BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, PINK & AQUA |
| NOMINAL DIMENSIONS                         |   |
| A) WIDTH                                   | 8.6 ± 0.4 mm  |
| B) HEIGHT                                  | 3.6 ± 0.3 mm  |
| DIAMETER OF EAA COATED F.R.P. ROD (2 nos.) | 1.8 + 0.05 mm   |
| DIAMETER OF LOOSE TUBE                     | 1.6 mm Nominal  |
| SHEATH THICKNESS                           | 0.90 mm Nominal   |
| WEIGHT OF CABLE                            | 39 ± 4 Kg/Km  |
| PRINTING ON CABLE                          | AKSH 24F SM G652D FLAT AERIAL OFC MMYYYY XXXX METRE                               |
| STANDARD LENGTH                            | 2,3,4 + 10% KMS   |

### CONSTRUCTION OF CABLE:

