

AKSH OPTIFIBRE LIMITED

PART No.: O-1/SM G657A1/(A&A)-Z-B5.5

DATE: 16.09.2016

CABLE TYPE: 1F SM G657A1 FTTH OUTDOOR DROP CABLE

DESIGN & DATA SPECIFICATION SHEET

PREPARED BY:
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**FIGURE-8
OUTDOOR DROP**

FIBRE PROPERTIES

| CHARACTERISTICS | UNIT | VALUE |
|-------------------------------------|------------------------|-----------------------------|
| ATTENUATION @ 1310 nm | dB/km | ≤ 0.35 |
| @ 1383 nm | | ≤ 0.33 or less than 1310 nm |
| @ 1550 nm | | ≤ 0.24 |
| CHROMATIC DISPERSION 1285 - 1330 nm | ps/nm.km | ≤ 3.5 |
| 1550 nm | | ≤ 18.0 |
| ZERO DISPERSION WAVELENGTH | nm | 1300 to 1324 |
| ZERO DISPERSION SLOPE | ps/nm ² .km | ≤ 0.092 |
| POLARIZATION MODE DISPERSION | ps/√km | ≤ 0.20 |
| CABLED CUT OFF WAVELENGTH | nm | ≤ 1260 |
| MODE FIELD DIAMETER at 1310 nm | um | 8.8 ± 0.4 |
| CORE -CLAD CONCENTRICITY ERROR | um | ≤ 0.5 |
| CLADDING NON CIRCULARITY | % | ≤ 1.0 |
| CLADDING DIAMETER | um | 125 ± 0.7 |
| COATING DIAMETER | um | 245 ± 5 |

CABLE PROPERTIES

| | | |
|---------------------------------|-------------------------------|--------------|
| NO. OF FIBRES | 1 No's | |
| TYPE OF FIBRE | SM G657 A1 | |
| TIGHT BUFFER DIAMETER | 900 ± 50 um | |
| SHEATH MATERIAL | LOW SMOKE ZERO HALOGEN (LSZH) | |
| SHEATH COLOUR | BLACK | |
| CABLE DIMENSIONS – WIDTH | 3.0 ± 0.20 mm | |
| HEIGHT | 5.5 ± 0.20 mm | |
| CABLE WEIGHT | 14.0 ± 2.0 Kg/Km | |
| TENSILE STRENGTH - INSTALLATION | Newton | 500 |
| - OPERATING | | 350 |
| MIN. BENDING RADIUS | mm | 20 |
| TEMPORARY (Without Messenger) | | 40 |
| PERMANENT | | |
| CRUSH RESISTANCE | Newton/10cm | 500 |
| TEMPERATURE PERFORMANCE | °C | - 20 to + 60 |
| OPERATING / INSTALLATION | | |

CROSS SECTIONAL VIEW:

