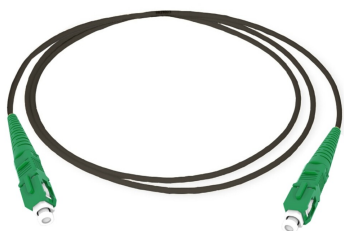


# FID-SG-090M-01A-SG



Fiber Optic Indoor/outdoor 3 mm Drop Cable Assembly, SC/APC-SC /APC, 90 M

## Product Classification

|                       |   |
|-----------------------|---|
| Regional Availability | EMEA  |
| Product Type          | Fiber drop cable assembly   |
| Product Series        | FID   |
| Ordering Note         | For custom cable assembly lengths, please contact your local CommScope representative |

## General Specifications

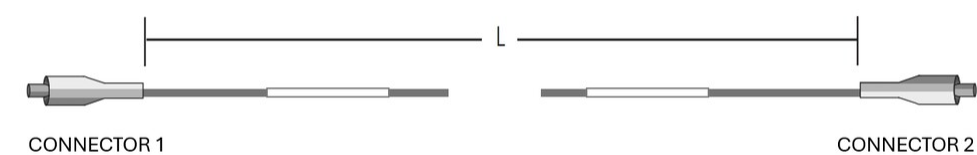
|                                |                    |
|--------------------------------|--------------------|
| Cable Type                     | Stapleable - Round |
| Connector A, quantity          | 1                  |
| Color, boot A                  | Green              |
| Color, connector A             | Green              |
| Connector B, quantity          | 1                  |
| Color, boot B                  | Green              |
| Color, connector B             | Green              |
| Interface, Connector A         | SC/APC             |
| Interface Feature, connector A | Male               |
| Interface, Connector B         | SC/APC             |
| Interface Feature, connector B | Male               |
| Jacket Color                   | Black              |
| Total Fibers, quantity         | 1                  |

## Dimensions

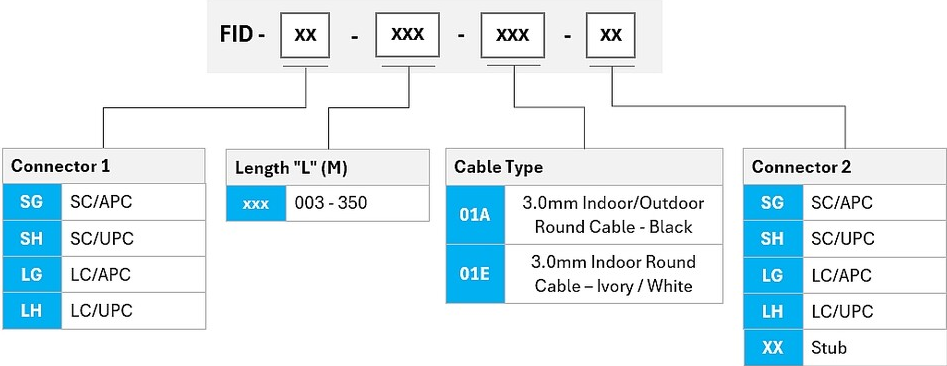
|                       |                   |
|-----------------------|-------------------|
| Cable Assembly Length | 90 m   295.276 ft |
| Cable Outer Diameter  | 3.0 mm (0.12 in)  |

## Dimension Drawing

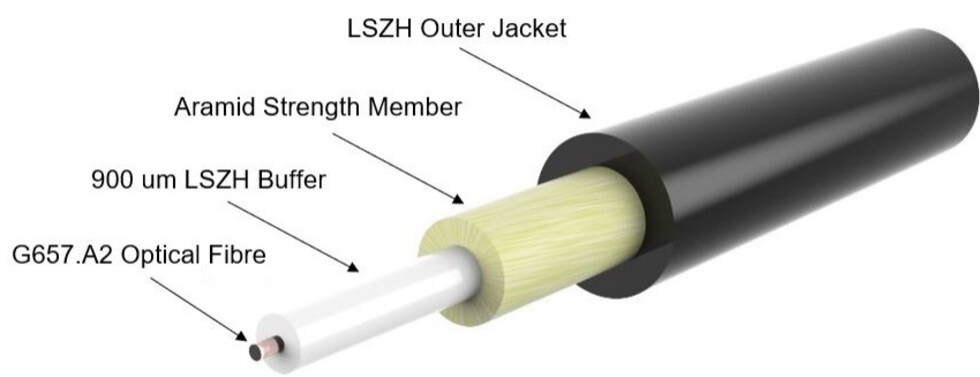
# FID-SG-090M-01A-SG



## Ordering Tree



## Representative Image



## Material Specifications

# FID-SG-090M-01A-SG

|                 |                               |
|-----------------|-------------------------------|
| Jacket Material | Low Smoke Zero Halogen (LSZH) |
|-----------------|-------------------------------|

## Mechanical Specifications

|                                   |                        |
|-----------------------------------|------------------------|
| Minimum Bend Radius, loaded       | 50 mm   1.969 in       |
| Minimum Bend Radius, unloaded     | 30 mm   1.181 in       |
| Tensile Load, long term, maximum  | 30 N   6.744 lbf       |
| Tensile Load, short term, maximum | 100 N   22.481 lbf     |
| Cable Crush Resistance, maximum   | 10 N/mm   57.101 lb/in |

## Optical Specifications

|                                      |                      |
|--------------------------------------|----------------------|
| Fiber Mode                           | Singlemode           |
| Fiber Type                           | G.657.A2, TeraSPEED® |
| Insertion Loss, maximum, connector A | 0.25 dB              |
| Insertion Loss, maximum, connector B | 0.25 dB              |
| Return Loss, minimum, connector A    | 60 dB                |
| Return Loss, minimum, connector B    | 60 dB                |

## Environmental Specifications

|  |                                      |
|--|--------------------------------------|
| Installation temperature                     | -20 °C to +60 °C (-4 °F to +140 °F)  |
| Operating Temperature                        | -40 °C to +70 °C (-40 °F to +158 °F) |
| Storage Temperature                          | -40 °C to +75 °C (-40 °F to +167 °F) |
| EN50575 CPR Cable EuroClass Fire Performance | Dca                                  |
| Environmental Space                          | Indoor/Outdoor                       |
| Jacket UV Resistance                         | UV stabilized                        |
| Qualification Standards                      | IEC 60794-1-2                        |

## Packaging and Weights

|                    |                    |
|--------------------|--------------------|
| Packaging quantity | 1                  |
| Weight, net        | 0.87 kg   1.918 lb |

## Regulatory Compliance/Certifications

| Agency     | Classification   |
|------------|--|
| CHINA-ROHS | Below maximum concentration value  |
| REACH-SVHC | Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a> |

# FID-SG-090M-01A-SG

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ROHS

UK-ROHS

Compliant

Compliant



## Included Products

810010113/DB  
C-001-DN-8G1-M01BK/30D/D-UK00

–

Indoor/Outdoor Fiber Optic Drop cable, 1 Fiber G657 A2 0.9mm tight buffer. Breaking load Max 2000N. Suitable for installation under overhead power lines  $\leq 11\text{kV}$ , vertical clearance  $\geq 1.8\text{m}$ .

# 810010113/DB | C-001-DN-8G1-M01BK/30D/D-UK00



Indoor/Outdoor Fiber Optic Drop cable, 1 Fiber G657 A2 0.9mm tight buffer. Breaking load Max 2000N. Suitable for installation under overhead power lines  $\leq 11\text{kV}$ , vertical clearance  $\geq 1.8\text{m}$ .

Fire retardant Outside plant LSZH jacket grade, suitable for drop / aerial installations of up to 68 m. Can be routed indoor.

## Product Classification

|                              |   |
|------------------------------|---|
| <b>Regional Availability</b> | Asia   Australia/New Zealand   EMEA   North America |
| <b>Portfolio</b>             | CommScope®  |
| <b>Product Type</b>          | Fiber indoor/outdoor cable                          |

## General Specifications

|                                     |  |
|-------------------------------------|--|
| <b>Cable Type</b>                   | Drop   Tight buffer  |
| <b>Construction Type</b>            | All Dielectric   Non-armored   |
| <b>Subunit Type</b>                 | Gel-free   |
| <b>Jacket Color</b>                 | Black  |
| <b>Jacket Marking</b>               | Meters   |
| <b>Jacket Marking Method</b>        | Inkjet   |
| <b>Jacket Marking Text</b>          | COMMScope GB OPTICAL CABLE 810010113/DB 1x G657A2 SM LSZH [DOM] [SERIAL NUMBER] [METER MARK] |
| <b>Subunit, quantity</b>            | 1  |
| <b>Fibers per Subunit, quantity</b> | 1  |
| <b>Total Fiber Count</b>            | 1  |

## Dimensions

|                                     |                   |
|-------------------------------------|-------------------|
| <b>Buffer Tube/Subunit Diameter</b> | 0.9 mm   0.035 in |
| <b>Diameter Over Jacket</b>         | 3 mm   0.118 in   |

## Representative Image



Material Specifications

Jacket Material

Low Smoke Zero Halogen (LSZH)

Mechanical Specifications

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded       | 30 mm   1.181 in                      |
| Tensile Load, long term, maximum  | 300 N   67.443 lbf                    |
| Tensile Load, short term, maximum | 620 N   139.382 lbf                   |
| Compression                       | 20 N/mm   114.203 lb/in               |
| Compression Test Method           | IEC 60794-1 E3                        |
| Impact                            | 2 N-m   17.701 in lb                  |
| Impact Test Method                | IEC 60794-1 E4                        |
| Strain                            | See long and short term tensile loads |
| Strain Test Method                | IEC 60794-1 E1                        |
| Twist                             | 10 cycles                             |
| Twist Test Method                 | IEC 60794-1 E7                        |

Optical Specifications

Fiber Type

G.657.A2, TeraSPEED®

## Environmental Specifications

|  |   |
|--|---|
| Installation temperature                     | -10 °C to +60 °C (+14 °F to +140 °F)      |
| Operating Temperature                        | -30 °C to +65 °C (-22 °F to +149 °F)      |
| Storage Temperature                          | -30 °C to +60 °C (-22 °F to +140 °F)      |
| Cable Qualification Standards                | IEC 60794-1-2                             |
| EN50575 CPR Cable EuroClass Fire Performance | Dca                                       |
| EN50575 CPR Cable EuroClass Smoke Rating     | s1a                                       |
| EN50575 CPR Cable EuroClass Droplets Rating  | d0  |
| EN50575 CPR Cable EuroClass Acidity Rating   | a1  |
| Environmental Space                          | Aerial   Drop   Ducted   Indoor/Outdoor   |
| Flame Test Listing                           | EN 50399                                  |
| Flame Test Method                            | IEC 60332-1-2   IEC 60754-2   IEC 61034-2 |
| Jacket UV Resistance                         | UV stabilized                             |
| Water Penetration                            | 24 h                                      |
| Water Penetration Test Method                | IEC 60794-1 F5                            |

## Environmental Test Specifications

|                               |                                      |
|-------------------------------|--------------------------------------|
| Temperature Cycle             | -30 °C to +60 °C (-22 °F to +140 °F) |
| Temperature Cycle Test Method | IEC 60794-1-22 F1                    |

## Packaging and Weights

|              |                          |
|--------------|--------------------------|
| Cable weight | 8.7 kg/km   5.846 lb/kft |
|--------------|--------------------------|

## Regulatory Compliance/Certifications

| Agency     | Classification  |
|------------|---|
| CHINA-ROHS | Below maximum concentration value   |
| REACH-SVHC | Compliant as per SVHC revision on <a href="https://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a> |
| ROHS       | Compliant   |
| UK-ROHS    | Compliant   |



## \* Footnotes

**Operating Temperature** Specification applicable to non-terminated bulk fiber cable