

## Tonable Outdoor Drop Cable, 2 fiber, interconnect

- \*Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

## Product Classification

|                              |   |
|------------------------------|---|
| <b>Regional Availability</b> | Asia   Australia/New Zealand   EMEA   Latin America   North America |
| <b>Portfolio</b>             | CommScope®  |
| <b>Product Type</b>          | Hybrid cable, fiber and tone-wire                                   |
| <b>Government Funding</b>    | Build America Buy America (BABA) compliant*                         |

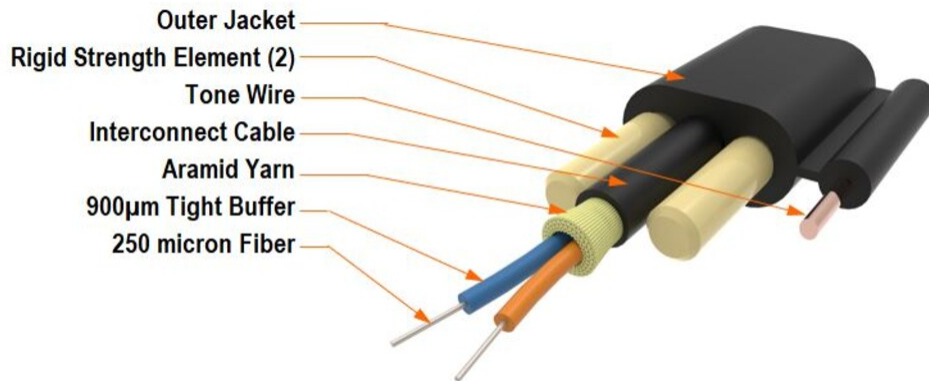
## General Specifications

|                                     |                                |
|-------------------------------------|--------------------------------|
| <b>Cable Type</b>                   | Drop                           |
| <b>Construction Type</b>            | Non-armored                    |
| <b>Fiber Short Description</b>      | O-002-DF-HY-F02NS/IC29/1X24AWG |
| <b>Subunit Type</b>                 | Gel-free                       |
| <b>Jacket Color</b>                 | Black                          |
| <b>Subunit, quantity</b>            | 1                              |
| <b>Fibers per Subunit, quantity</b> | 2                              |
| <b>Tone Wire, quantity</b>          | 1                              |
| <b>Total Fiber Count</b>            | 2                              |

## Dimensions

|                                     |                    |
|-------------------------------------|--------------------|
| <b>Height Over Jacket</b>           | 4.572 mm   0.18 in |
| <b>Buffer Tube/Subunit Diameter</b> | 2.794 mm   0.11 in |
| <b>Diameter Over Jacket</b>         | 9.906 mm   0.39 in |
| <b>Tone Wire Gauge</b>              | 24 AWG             |

## Representative Image



## Mechanical Specifications

|  |                                       |
|--|---------------------------------------|
| <b>Minimum Bend Radius, loaded</b>       | 91.44 mm   3.6 in                     |
| <b>Minimum Bend Radius, unloaded</b>     | 63.5 mm   2.5 in                      |
| <b>Tensile Load, long term, maximum</b>  | 400.34 N   90 lbf                     |
| <b>Tensile Load, short term, maximum</b> | 1,334.466 N   300 lbf                 |
| <b>Compression</b>                       | 2.25 kg/mm   126 lb/in                |
| <b>Compression Test Method</b>           | FOTP-41   IEC 60794-1 E3              |
| <b>Flex</b>                              | 25 cycles                             |
| <b>Flex Test Method</b>                  | FOTP-104   IEC 60794-1 E6             |
| <b>Impact</b>                            | 2.17 ft lb   2.942 N-m                |
| <b>Impact Test Method</b>                | FOTP-25   IEC 60794-1 E4              |
| <b>Strain</b>                            | See long and short term tensile loads |
| <b>Strain Test Method</b>                | FOTP-33   IEC 60794-1 E1              |
| <b>Twist</b>                             | 10 cycles                             |
| <b>Twist Test Method</b>                 | FOTP-85   IEC 60794-1 E7              |
| <b>Vertical Rise, maximum</b>            | 1,071.677 m   3516 ft                 |

## Optical Specifications

|                   |                           |
|-------------------|---------------------------|
| <b>Fiber Type</b> | G.657.A2/B2   G.657.A2/B2 |
|-------------------|---------------------------|

## Environmental Specifications

|                                 |                                      |
|---------------------------------|--------------------------------------|
| <b>Installation temperature</b> | -30 °C to +60 °C (-22 °F to +140 °F) |
| <b>Operating Temperature</b>    | -40 °C to +70 °C (-40 °F to +158 °F) |

# 810009422/DB | O-002-DF-HY-F02NS/8G002 /1X24AWG/IC29

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| <b>Storage Temperature</b>           | -40 °C to +75 °C (-40 °F to +167 °F) |
| <b>Cable Qualification Standards</b> | ANSI/ICEA S-110-717                  |
| <b>Environmental Space</b>           | Aerial, lashed   Buried              |
| <b>Flame Test Method</b>             | FT4                                  |
| <b>Jacket UV Resistance</b>          | UV stabilized                        |
| <b>Water Penetration</b>             | 24 h                                 |
| <b>Water Penetration Test Method</b> | FOTP-82   IEC 60794-1 F5             |

## Environmental Test Specifications

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| <b>Cable Freeze</b>                  | -2 °C   28.4 °F                      |
| <b>Cable Freeze Test Method</b>      | FOTP-98   IEC 60794-1 F15            |
| <b>Drip</b>                          | 70 °C   158 °F                       |
| <b>Drip Test Method</b>              | FOTP-81   IEC 60794-1 E14            |
| <b>Heat Age</b>                      | -40 °C to +85 °C (-40 °F to +185 °F) |
| <b>Heat Age Test Method</b>          | IEC 60794-1 F9                       |
| <b>Low High Bend</b>                 | -30 °C to +60 °C (-22 °F to +140 °F) |
| <b>Low High Bend Test Method</b>     | FOTP-37   IEC 60794-1 E11            |
| <b>Temperature Cycle</b>             | -40 °C to +70 °C (-40 °F to +158 °F) |
| <b>Temperature Cycle Test Method</b> | FOTP-3   IEC 60794-1 F1              |

## Packaging and Weights

|                     |                            |
|---------------------|----------------------------|
| <b>Cable weight</b> | 38.097 kg/km   25.6 lb/kft |
|---------------------|----------------------------|

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| CHINA-ROHS    | Below maximum concentration value  |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system   |
| REACH-SVHC    | Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a> |
| ROHS          | Compliant  |
| UK-ROHS       | Compliant  |



## Included Products

R-002-IC-8G-N29BK

# 810009422/DB | O-002-DF-HY-F02NS/8G002 /1X24AWG/IC29

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- Fiber indoor cable, TeraSPEED® Riser, 2 fiber, 2.9 mm Interconnect, Singlemode G.652.D and G.657.A1, Feet jacket marking, Black jacket color

## \* Footnotes

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

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Fiber indoor cable, TeraSPEED® Riser, 2 fiber, 2.9 mm Interconnect, Singlemode G.652.D and G.657.A1, Feet jacket marking, Black jacket color

## Product Classification

|                              |   |
|------------------------------|---|
| <b>Regional Availability</b> | Asia   Australia/New Zealand   Latin America   Middle East/Africa   North America |
| <b>Portfolio</b>             | CommScope®  |
| <b>Product Type</b>          | Fiber indoor cable  |
| <b>Product Series</b>        | R-IC  |

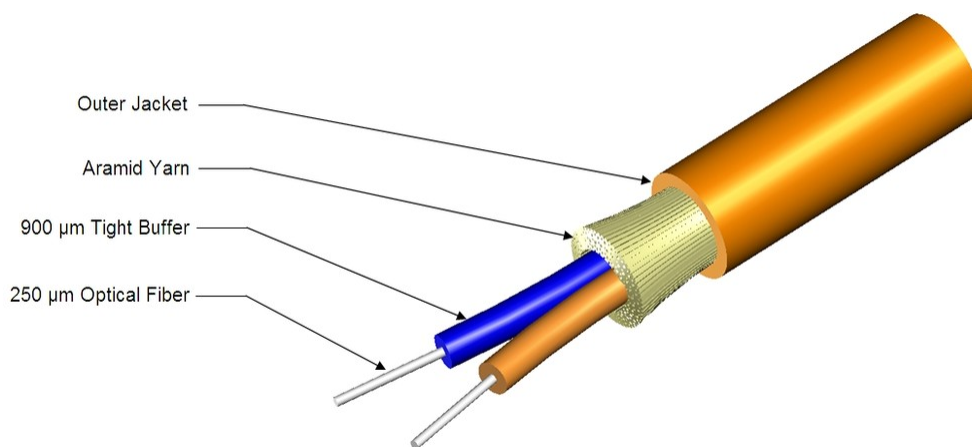
## General Specifications

|                          |             |
|--------------------------|-------------|
| <b>Cable Type</b>        | Cordage     |
| <b>Construction Type</b> | Non-armored |
| <b>Subunit Type</b>      | Gel-free    |
| <b>Jacket Color</b>      | Black       |
| <b>Jacket Marking</b>    | Feet        |
| <b>Total Fiber Count</b> | 2           |

## Dimensions

|                             |                   |
|-----------------------------|-------------------|
| <b>Diameter Over Jacket</b> | 2.9 mm   0.114 in |
|-----------------------------|-------------------|

## Representative Image



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## Mechanical Specifications

|  |                                       |
|--|---------------------------------------|
| <b>Minimum Bend Radius, loaded</b>       | 58 mm   2.283 in                      |
| <b>Minimum Bend Radius, unloaded</b>     | 30 mm   1.181 in                      |
| <b>Tensile Load, long term, maximum</b>  | 93 N   20.907 lbf                     |
| <b>Tensile Load, short term, maximum</b> | 311 N   69.916 lbf                    |
| <b>Compression</b>                       | 10 N/mm   57.101 lb/in                |
| <b>Compression Test Method</b>           | FOTP-41   IEC 60794-1 E3              |
| <b>Flex</b>                              | 300 cycles                            |
| <b>Flex Test Method</b>                  | FOTP-104   IEC 60794-1 E6             |
| <b>Impact</b>                            | 0.74 N-m   6.55 in lb                 |
| <b>Impact Test Method</b>                | FOTP-25   IEC 60794-1 E4              |
| <b>Strain</b>                            | See long and short term tensile loads |
| <b>Strain Test Method</b>                | FOTP-33   IEC 60794-1 E1              |
| <b>Twist</b>                             | 10 cycles                             |
| <b>Twist Test Method</b>                 | FOTP-85   IEC 60794-1 E7              |
| <b>Vertical Rise, maximum</b>            | 500 m   1,640.42 ft                   |

## Optical Specifications

|                   |                                  |
|-------------------|----------------------------------|
| <b>Fiber Type</b> | G.652.D and G.657.A1, TeraSPEED® |
|-------------------|----------------------------------|

## Environmental Specifications

|                                      |                                       |
|--------------------------------------|---------------------------------------|
| <b>Installation temperature</b>      | -20 °C to +70 °C (-4 °F to +158 °F)   |
| <b>Operating Temperature</b>         | -20 °C to +70 °C (-4 °F to +158 °F)   |
| <b>Storage Temperature</b>           | -40 °C to +70 °C (-40 °F to +158 °F)  |
| <b>Cable Qualification Standards</b> | ANSI/ICEA S-83-596   Telcordia GR-409 |
| <b>Environmental Space</b>           | Riser                                 |
| <b>Flame Test Listing</b>            | NEC OFNR (ETL) and c(ETL)             |
| <b>Flame Test Method</b>             | CSA FT4   UL 1666                     |

## Environmental Test Specifications

|                             |                                     |
|-----------------------------|-------------------------------------|
| <b>Heat Age</b>             | -20 °C to +85 °C (-4 °F to +185 °F) |
| <b>Heat Age Test Method</b> | IEC 60794-1 F9                      |
| <b>Low High Bend</b>        | -20 °C to +70 °C (-4 °F to +158 °F) |

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|                                      |                                     |
|--------------------------------------|-------------------------------------|
| <b>Low High Bend Test Method</b>     | FOTP-37   IEC 60794-1 E11           |
| <b>Temperature Cycle</b>             | -20 °C to +70 °C (-4 °F to +158 °F) |
| <b>Temperature Cycle Test Method</b> | FOTP-3   IEC 60794-1 F1             |

## Packaging and Weights

|                     |                        |
|---------------------|------------------------|
| <b>Cable weight</b> | 7 kg/km   4.704 lb/kft |
|---------------------|------------------------|

## \* Footnotes

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