810009422/DB /1X24AWG/IC29

810009422/DB | 0-002-DF-HY-F02NS/8G002



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

Regional Availability

Asia | Australia/New Zealand | EMEA | Latin America | North America

Portfolio CommScope®

Product TypeHybrid cable, fiber and tone-wire

Government RequirementsBuild America Buy America (BABA) compliant*

General Specifications

Cable Type Drop

Construction Type Non-armored

Fiber Short Description O-002-DF-HY-F02NS/IC29/1X24AWG

Subunit Type Gel-free

Jacket Color Black

Location of ManufacturingCatawba, North Carolina

Subunit, quantity 1

Fibers per Subunit, quantity 2

Tone Wire, quantity 1

Total Fiber Count 2

Dimensions

Height Over Jacket4.572 mm0.18 inBuffer Tube/Subunit Diameter2.794 mm0.11 inDiameter Over Jacket9.906 mm0.39 in

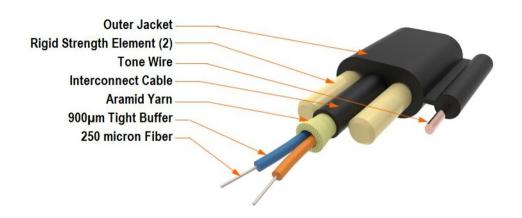
Tone Wire Gauge 24 AWG

Representative Image



/1X24AWG/IC29

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Mechanical Specifications

Minimum Bend Radius, loaded 91.44 mm | 3.6 in

Minimum Bend Radius, unloaded 63.5 mm | 2.5 in Tensile Load, long term, maximum 400.34 N | 90 lbf

Tensile Load, short term, maximum 1,334.466 N | 300 lbf

Compression 2.25 kg/mm | 126 lb/in

FOTP-41 | IEC 60794-1 E3 **Compression Test Method**

Flex 25 cycles

Flex Test Method FOTP-104 | IEC 60794-1 E6

2.17 ft lb | 2.942 N-m **Impact**

FOTP-25 | IEC 60794-1 E4 **Impact Test Method**

Strain See long and short term tensile loads

Strain Test Method FOTP-33 | IEC 60794-1 E1

Twist 10 cycles

Twist Test Method FOTP-85 | IEC 60794-1 E7

Vertical Rise, maximum 1,071.677 m | 3516 ft

Optical Specifications

G.657.A2/B2 | G.657.A2/B2 Fiber Type

Environmental Specifications

Installation temperature -30 °C to +60 °C (-22 °F to +140 °F) **Operating Temperature** -40 °C to +70 °C (-40 °F to +158 °F)

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Storage Temperature $-40 \,^{\circ}\text{C}$ to $+75 \,^{\circ}\text{C}$ $(-40 \,^{\circ}\text{F}$ to $+167 \,^{\circ}\text{F})$

 Cable Qualification Standards
 ANSI/ICEA S-110-717

 Environmental Space
 Aerial, lashed | Buried

Flame Test Method FT4

Jacket UV Resistance UV stabilized

Water Penentration 24 h

Water Penentration Test Method FOTP-82 | IEC 60794-1 F5

Environmental Test Specifications

Cable Freeze -2 °C | 28.4 °F

Cable Freeze Test Method FOTP-98 | IEC 60794-1 F15

Drip 70 °C | 158 °F

Drip Test Method FOTP-81 | IEC 60794-1 E14

Heat Age $-40 \,^{\circ}\text{C} \text{ to } +85 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +185 \,^{\circ}\text{F})$

Heat Age Test Method IEC 60794-1 F9

Low High Bend $-30 \,^{\circ}\text{C}$ to $+60 \,^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to $+140 \,^{\circ}\text{F}$)

Low High Bend Test Method FOTP-37 | IEC 60794-1 E11

Temperature Cycle -40 °C to +70 °C (-40 °F to +158 °F)

Temperature Cycle Test Method FOTP-3 | IEC 60794-1 F1

Packaging and Weights

Cable weight 38.097 kg/km | 25.6 lb/kft

Regulatory Compliance/Certifications

Agency Classification

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 www.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



Included Products

R-002-IC-8G-N29BK

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0-002-DF-HY-F02NS/8G002

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



R-002-IC-8G-N29BK

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

Regional Availability

Asia | Australia/New Zealand | Latin America | Middle East/Africa | North

America

Portfolio CommScope®

Product Type Fiber indoor cable

Product Series R-IC

General Specifications

Cable TypeCordage

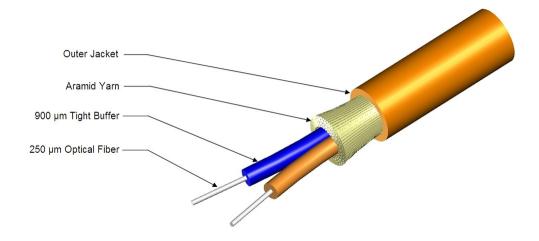
Construction Type Non-armored

Subunit TypeGel-freeJacket ColorBlackJacket MarkingFeetTotal Fiber Count2

Dimensions

Diameter Over Jacket 2.9 mm | 0.114 in

Representative Image





R-002-IC-8G-N29BK

Mechanical Specifications

Minimum Bend Radius, loaded58 mm | 2.283 inMinimum Bend Radius, unloaded30 mm | 1.181 inTensile Load, long term, maximum93 N | 20.907 lbfTensile Load, short term, maximum311 N | 69.916 lbf

 Compression
 10 N/mm | 57.101 lb/in

 Compression Test Method
 FOTP-41 | IEC 60794-1 E3

Flex 300 cycles

Flex Test Method FOTP-104 | IEC 60794-1 E6

Impact 0.74 N-m | 6.55 in lb

Impact Test Method FOTP-25 | IEC 60794-1 E4

Strain See long and short term tensile loads

Strain Test Method FOTP-33 | IEC 60794-1 E1

Twist 10 cycles

Twist Test Method FOTP-85 | IEC 60794-1 E7

Vertical Rise, maximum 500 m | 1,640.42 ft

Optical Specifications

Fiber Type G.652.D and G.657.A1, TeraSPEED®

Environmental Specifications

Installation temperature $-20 \,^{\circ}\text{C to} + 70 \,^{\circ}\text{C } (-4 \,^{\circ}\text{F to} + 158 \,^{\circ}\text{F})$ Operating Temperature $-20 \,^{\circ}\text{C to} + 70 \,^{\circ}\text{C } (-4 \,^{\circ}\text{F to} + 158 \,^{\circ}\text{F})$ Storage Temperature $-40 \,^{\circ}\text{C to} + 70 \,^{\circ}\text{C } (-40 \,^{\circ}\text{F to} + 158 \,^{\circ}\text{F})$

Cable Qualification Standards ANSI/ICEA S-83-596 | Telcordia GR-409

Environmental Space Riser

Flame Test Listing NEC OFNR (ETL) and c(ETL)

Flame Test Method CSA FT4 | UL 1666

Environmental Test Specifications

Heat Age -20 °C to +85 °C (-4 °F to +185 °F)

Heat Age Test Method IEC 60794-1 F9

Low High Bend $-20 \,^{\circ}\text{C}$ to $+70 \,^{\circ}\text{C}$ (-4 °F to $+158 \,^{\circ}\text{F}$)

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Low High Bend Test Method FOTP-37 | IEC 60794-1 E11

Temperature Cycle $-20 \,^{\circ}\text{C} \text{ to } +70 \,^{\circ}\text{C} \left(-4 \,^{\circ}\text{F to } +158 \,^{\circ}\text{F}\right)$

Temperature Cycle Test Method FOTP-3 | IEC 60794-1 F1

Packaging and Weights

Cable weight 7 kg/km | 4.704 lb/kft

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

