



Product: [3072E](#)

Blue Hose®, 1 Pr #18 Str TC, PO Ins, OS+TC Brd, PVC Jkt, 600V TC

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Product Description

Blue Hose® for Data Highway Plus, 1 Pair 18AWG (7x26) Tinned Copper, PO Insulation, Overall Beldfoil®+Tinned Copper Braid(55%) Shield, PVC Outer Jacket, 600V TC

Technical Specifications

Product Overview

Suitable Applications:	harsh environment, IIoT, factory or process automation, video, audio, data communication, etc.
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
18	7x26	TC - Tinned Copper	0.046 in	1

Conductor Count:	2
Total Number of Pairs:	1

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PP - Polypropylene	0.096 in	0.025 in

Color Chart

Number	Color
1	Natural
2	Blue

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Alum / Poly	Beldfoil®	100 %	TC - Tinned Copper	20	7x28
Braid	2	TC - Tinned Copper		55 %			

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.324 in	0.053 in

Construction and Dimensions

Stranding

Diameter
0.192 mm

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
6.9 Ohm/1000ft	3.2 Ohm/1000ft

Capacitance

Nom. Mutual Capacitance

19.5 pF/ft

Inductance

Nominal Inductance

0.12 µH/ft

Impedance

Nominal Characteristic Impedance

78 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.52 dB/100ft
10 MHz	1.98 dB/100ft
50 MHz	3.78 dB/100ft
100 MHz	5.35 dB/100ft
200 MHz	7.57 dB/100ft
400 MHz	10.7 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.58 ns/ft	64.5 %

High Freq

Frequency [MHz]
1 MHz
10 MHz
50 MHz
100 MHz
200 MHz
400 MHz

Voltage

UL Voltage Rating

300 V RMS (NEC Type PLTC & CMG)

300 V RMS (NEC Type CMG)

Electrical Characteristics Notes: Nutual Capacitance: 19.5 pF/ft

Temperature Range

UL Temp Rating:	75°C Dry
Operating Temp Range:	-40°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	48 lbs/1000ft
Max Recommended Pulling Tension:	85 lbs
Min Bend Radius/Minor Axis:	3.25 in

Standards

NEC/(UL) Specification:	CMG, ITC, PLTC, TC
CEC/C(UL) Specification:	CMG
PMSHA Specification:	SC-182/7

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)

EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-10-13
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Sunlight Resistance:	Yes
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Flammability, LSOH, Toxicity Testing

C(UL) Flammability:	FT4
UL Flammability:	UL1685 UL Loading
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (NEC Type TC)

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
3072F C55500	Blue, Cairo	Reel	500 ft	612825140092
3072F C551000	Blue, Cairo	Reel	1,000 ft	612825140054
3072F C555000	Blue, Cairo	Reel	5,000 ft	612825140108
3072F C5510000	Blue, Cairo	Reel	10,000 ft	612825140061

Footnote:	C - CRATE REEL PUT-UP.
Footnote:	N - FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

Product Notes

Notes:	For CPE jacketed version order Part No. YM45044.
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History

Update and Revision:	Revision Number: 0.322 Revision Date: 04-28-2020
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