



Product: [3072F](#)

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

Request Sample

### Product Description

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

### Technical Specifications

#### Product Overview

Suitable Applications:	harsh environment, IIoT, factory or process automation, video, audio, data communication, etc.
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#### Construction Details

##### Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	18 AWG	7x26	TC - Tinned Copper

##### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	Notes
Pair(s)	PP - Polypropylene	0.025 in (0.64 mm)	0.096 in (2.4 mm)	Blue & White	Flame Retardant

##### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC
Braid	Tinned Copper (TC)	55%	

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.053 in (1.3 mm)	0.324 in (8.23 mm)

Table Notes:	Jacket OD +/- 0.006
Overall Cable Diameter (Nominal):	0.324 in (8.23 mm)

#### Electrical Characteristics

##### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	7.2 Ohm/1000ft	19.5 pF/ft (64.0 pF/m)	78 Ohm	65%	5.2 Amps per Conductor at 25°C

Nom. Outer Shield DCR:	2.1 Ohm/1000ft (6.9 Ohm/km)
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##### High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss (Attenuation)
Pair(s)	1	0.52 dB/100ft
	10	1.98 dB/100ft
	50	3.78 dB/100ft
	100	5.35 dB/100ft
	200	7.57 dB/100ft
	400	10.7 dB/100ft

##### Voltage

UL Voltage Rating	Voltage Rating
600 V (TC), 300 V (CMG, PLTC)	150 V (ITC)

## Mechanical Characteristics

### Temperature

UL Temperature	Operating
75°C	-40°C to +75°C

### Bend Radius

Stationary Min.	Installation Min.
3 in (76 mm)	4 in (100 mm)

Max. Pull Tension:	85 lbs (39 kg)
Bulk Cable Weight:	64 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, FT4, IEEE 1202
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 336, Article 725, Article 727, Article 800, TC
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	P-MSHA-SC-182/7

## Product Notes

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

Update and Revision:	Revision Number: 0.573 Revision Date: 02-15-2024
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## Part Numbers

### Variants

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

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