



**Product:** [3072F](#)

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

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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	Number of Element	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, 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: 0.537 Revision Date: 01-20-2023
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## Part Numbers

### 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

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