



Part Number: 9463
Blue Hose® Cable

Product Description

20 AWG stranded (7x28) .038" tinned copper conductors, polyethylene insulation, Beldfoil® (100%; coverage) plus a tinned copper braid shield (55%; coverage), sunlight-resistant PVC jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
20	7x28	TC - Tinned Copper	0.038 in	1
Total Number of Conductors:			2	

Insulation:

Material	Nominal Diameter
PE - Polyethylene	0.078 mm

Color Chart 1:

Number	Color
1	Clear & Blue

Stranding:

Twists	Diameter
2.75 twist/ft	0.154 mm

Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	20	7x28H mm
Braid	2	TC - Tinned Copper		55 %			

Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.238 mm

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
9.5 Ohm/km	4.1 Ohm/km

Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
19.7 pF/m	36 pF/m

Other Electrical Characteristic 1:	DC Resistance Unbalanced: .77 Ohms/1000 ft Max
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Impedance:

Nominal Characteristic Impedance
78 mOhm/ft

High Frequency (Nominal/Typical):

Nom. Insertion Loss
0.6 db/100m
2.1 db/100m
5 db/100m
7.5 db/100m
11 db/100m
16 db/100m

Delay:

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
66 ns/100m	1.54 ns/ft	66 %

High Freq:

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

Inductance:

Nominal Inductance
0.12 μ H/m

Voltage:

UL Voltage Rating
300V RMS (UL AWM Style 2464)
300V RMS (NEC Type CM)
300V RMS (NEC Type CL2)

Use

Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	48 lbs

Safety

UL Flammability:	UL1685 UL Loading
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Temperature Range

Operating Temp Range:	-40°C To +80°C
UL Temp Rating:	80°C (UL AWM Style 2464)

Mechanical Characteristics

Min Bend Radius/Minor Axis:	2.4 in
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Part Number

Plenum Number:	89463
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Standards

CA Prop 65 (CJ for Wire & Cable):	Yes
CEC/C(UL) Specification:	CM

Customer Part Number Reference Spec:	Allen Bradley P/N 1770-CD
MII Order #39 (China RoHS):	Yes
NEC/(UL) Specification:	CL2^CM
PMSHA Specification:	P-7K-SC-182141
UL AWM Style:	UL Style 2464 (300V 80°C)
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

History

Product Variants

Part Number	Color	Put-Up Type	Length
9463 00110000	BROWN	Reel	10000 ft
9463 0011000	BROWN	Reel	1000 ft
9463 00112000	BROWN	Reel	2000 ft
9463 0016000	BROWN	Reel	6000 ft
9463 00310000	ORANGE	Reel	10000 ft
9463 0031000	ORANGE	Reel	1000 ft
9463 00312000	ORANGE	Reel	2000 ft
9463 0036000	ORANGE	Reel	6000 ft
9463 0071000	VIOLET	Reel	1000 ft
9463 0076000	VIOLET	Reel	6000 ft
9463 J221000	BLUE, STRONG	Reel	1000 ft
9463 J22100	BLUE, STRONG	Reel	100 ft
9463 J2212000	BLUE, STRONG	Reel	2000 ft
9463 J22500	BLUE, STRONG	Reel	500 ft
9463 J226000	BLUE, STRONG	Reel	6000 ft
9463 J22U1000	BLUE, STRONG	UnReel	1000 ft
9463 J22U500	BLUE, STRONG	UnReel	500 ft
9463.001829	BLACK	Reel	1829 m
9463.00305	BLACK	Reel	305 m
9463.00U152	BLACK	UnReel	152 m
9463.00U305	BLACK	UnReel	305 m
9463.01152	BLACK	Reel	152 m
9463.02305	BLACK	Reel	305 m
9463.031829	BLACK	Reel	1829 m
9463.03305	BLACK	Reel	305 m
9463.041829	BLACK	Reel	1829 m
9463.04305	BLACK	Reel	305 m

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