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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Part Number: 9463

Blue Hose®, (1 pr) 20 AWG (7x28) TC, PE/PVC, Foil+TC Braid Shld, CM

[Request Sample](#)

Product Description

One 20 AWG pair stranded (7x28) tinned copper conductors, polyethylene insulation, overall Beldfoil® (100% coverage) plus tinned copper braid shield (55% coverage), oil- and UV-resistant PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Pairs
20	7x28	TC - Tinned Copper	0.038 in	1
Conductor Count:		2		
Conductor Size:		20 AWG		

Insulation	
Material	Nominal Diameter
PE - Polyethylene	0.078 in

Color Chart	
Number	Color
1	Clear & Blue

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

Outer Jacket Material	
Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.238 in

Construction and Dimensions

Stranding	
Twists	Diameter
2.75 twist/ft	0.154 mm

Electrical Characteristics

Conductor DCR	
Nominal Conductor DCR	Nominal Outer Shield DCR
9.5 Ohm/1000ft	4.1 Ohm/1000ft

Capacitance	
Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
19.7 pF/ft	36 pF/ft
Shielding: Foil + Braid(s)	

Inductance
Nominal Inductance

0.12 µH/ft

Impedance

Nominal Characteristic Impedance

78 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.6 dB/100m
10 MHz	2.1 dB/100m
50 MHz	5 dB/100m
100 MHz	7.5 dB/100m
200 MHz	11 dB/100m
400 MHz	16 dB/100m

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.54 ns/ft	66 %

Voltage

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

Electrical Characteristics Notes: DC Resistance Unbalanced: .77 Ohms/1000 ft Max

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	36 lbs/1000ft
Max Recommended Pulling Tension:	48 lbs
Min Bend Radius/Minor Axis:	2.4 in

Standards

Customer Part Number Reference Spec:	Allen Bradley P/N 1770-CD
NEC/(UL) Specification:	CL2, CM
CEC/C(UL) Specification:	CM
UL AWM Style:	UL Style 2464 (300 V 80°C)
CPR Euroclass:	Eca
PMSHA Specification:	P-7K-SC-182141

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	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):	2005-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

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

UL Flammability:	UL1685 UL Loading
UL voltage rating:	300 V RMS (UL AWM Style 2464)

Plenum/Non-Plenum

Plenum Number:	89463
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Part Number

Variants

Item #	Color	Footnote
9463.001829	Blue	
9463.00305	Blue	
9463.00U152	Blue	
9463.00U305	Blue	
9463.01152	Blue	
9463 J22100	Blue, Strong	
9463 J221000	Blue, Strong	C
9463 J2212000	Blue, Strong	C Y
9463 J22500	Blue, Strong	
9463 J226000	Blue, Strong	C Z
9463 J22U1000	Blue, Strong	
9463 J22U500	Blue, Strong	
9463.02305	Brown	
9463 0011000	Brown	
9463 00110000	Brown	C Z
9463 00112000	Brown	C Y
9463 0016000	Brown	C Z
9463.031829	Orange	
9463.03305	Orange	
9463 0031000	Orange	C
9463 00310000	Orange	C Z
9463 00312000	Orange	C Y
9463 0036000	Orange	C Z
9463.041829	Violet	
9463.04305	Violet	
9463 0071000	Violet	C
9463 0076000	Violet	C Z

Footnote:	C - CRATE REEL PUT-UP.
Footnote:	Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.
Footnote:	Y - FINAL PUT-UP LENGTH MAY VAR -10% TO +20% FROM LENGTH SHOWN. MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

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