

## 9463 Twinax - Blue Hose® Cable

 	<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p>
--	---

### 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.

### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

Number of Pairs	1
Total Number of Conductors	2
AWG	20
Stranding	7x28
Conductor Diameter	.038 in.
Conductor Material	TC - Tinned Copper

#### INSULATION:

Insulation Material	PE - Polyethylene
---------------------	-------------------

#### PAIR:

Pair Diameter	.154 in.
---------------	----------

Pair Color Code Chart :

Number	Color
1	Clear & Blue

#### OUTER SHIELD:

Outer Shield Trade Name	Beldfoil®
Outer Shield Type	Tape/Braid

Outer Shield Material :

Layer Number	Material Trade Name	Type	Material	% Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	55

Outer Shield % Coverage	100 %
-------------------------	-------

#### OUTER SHIELD DRAIN WIRE :

Outer Shield Drain Wire AWG	20
Outer Shield Drain Wire Stranding	7x28H
Outer Shield Drain Wire Conductor Material	TC - Tinned Copper

## 9463 Twinax - Blue Hose® Cable

### OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
-----------------------	--------------------------

### OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.238 in.
--------------------------	----------

### MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +80°C
UL Temperature Rating	80°C (UL AWM Style 2464)
Bulk Cable Weight	36 lbs/1000 ft.
Max. Recommended Pulling Tension	48 lbs.
Min. Bend Radius (Install)	2.5 in.

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

NEC/(UL) Specification	CM, CL2
CEC/C(UL) Specification	CM
AWM Specification	UL Style 2464 (300 V 80°C)
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005
PMSHA Specification	P-7K-SC-182141
Customer Part Number Reference Specification	Allen Bradley P/N 1770-CD

### FLAME TEST:

UL Flame Test	UL1685 UL Loading
---------------	-------------------

### SUITABILITY:

Sunlight Resistance	Yes
---------------------	-----

### PLENUM/NON-PLENUM:

Plenum (Y/N)	N
Plenum Number	89463

### ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	78 Ohms
Nom. Inductance	0.12 µH/ft
Nom. Capacitance Conductor to Conductor @ 1 KHz	19.7 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	36 pF/ft
Nominal Velocity of Propagation	66 %
Nominal Delay	1.54 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	9.5 Ohms/1000 ft
Nominal Outer Shield DC Resistance	4.1 Ohms/1000 ft

## 9463 Twinax - Blue Hose® Cable

Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			0.6
	10			2.1
	50			5.0
	100			7.5
	200			11.0
	400			16.0

Max. Operating Voltage - UL 300 V RMS (UL AWM Style 2464)

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

### PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
9463 0011000	78 OHM TWINAX	1000	39	BROWN	
9463 00110000	78 OHM TWINAX	10000	380	BROWN	C Z
9463 0016000	78 OHM TWINAX	6000	234	BROWN	C Z
9463 0031000	78 OHM TWINAX	1000	39	ORANGE	C
9463 00310000	78 OHM TWINAX	10000	380	ORANGE	C Z
9463 0036000	78 OHM TWINAX	6000	234	ORANGE	C Z
9463 0071000	00 OHM TWINAX	1000	39	VIOLET	C
9463 0076000	78 OHM TWINAX	6000	234	VIOLET	C Z
9463 J22100	78 OHM TWINAX	100	4.4	BLUE, STRONG	
9463 J221000	78 OHM TWINAX	1000	39	BLUE, STRONG	C
9463 J22500	78 OHM TWINAX	500	18	BLUE, STRONG	
9463 J226000	78 OHM TWINAX	6000	234	BLUE, STRONG	C Z
9463 J22U1000	78 OHM TWINAX	U1000	38	BLUE, STRONG	
9463 J22U500	78 OHM TWINAX	U500	19.5	BLUE, STRONG	

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 1      Revision Date: 08-20-2007

---

**9463 Twinax - Blue Hose® Cable**

---

© Copyright 2006 Belden, Inc  
All Rights Reserved.

Although Belden ("Belden") makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with the following environmental regulations: California Proposition 65 Consent Judgment For Wire & Cable Mfgs. (San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003); Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory. EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); And EU BFR (Directive 2003/11/EC, 6-Feb-2003). The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information and belief at the date of its publication. The information provided in the Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.