

## 8428 Non-Paired - Two-Conductor, Low-Impedance Cable

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

**Description:**

18 AWG stranded (41x34) High-conductivity TC conductors, EPDM rubber insulation, rayon braid, TC braid shield (85% coverage), cotton wrap, Neoprene jacket.

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

Number of Conductors	2
Total Number of Conductors	2
AWG	18
Stranding	41x34
Conductor Diameter	.047 in.
Conductor Material	High Conductivity TC - Tinned Copper

**INSULATION:**

Insulation Material	EPDM - Ethylene Propylene Diene Monomer Rubber
Nom. Insulation Wall Thickness	.023 in.
Insulation Diameter	.100 in.

**OVERALL CABLING:**

Overall Cabling Color Code Chart :

Number	Color	Number	Color
1	White	2	Black

Overall Cabling Separator Material	Rayon Braid
------------------------------------	-------------

**OUTER SHIELD:**

Outer Shield Type	Braid
Outer Shield Material	TC - Tinned Copper
Outer Shield % Coverage	85 %

**OUTER SHIELD SEPARATOR :**

Outer Shield Separator Material	Cotton Wrap
---------------------------------	-------------

**OUTER JACKET:**

Outer Jacket Material	Neoprene
Outer Jacket Nominal Wall Thickness	.030 in.

**OVERALL NOMINAL DIAMETER:**

## 8428 Non-Paired - Two-Conductor, Low-Impedance Cable

Overall Nominal Diameter	.290 in.
--------------------------	----------

### MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-30°C To +60°C
Non-UL Temperature Rating	60°C
Bulk Cable Weight	54.1 lbs/1000 ft.
Max. Recommended Pulling Tension	138 lbs.
Min. Bend Radius (Install)	2.9 in.

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004

#### PLENUM/NON-PLENUM:

Plenum (Y/N)	N
--------------	---

### ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	50 Ohms
Nom. Inductance	.19 µH/ft
Nom. Capacitance Conductor to Conductor @ 1 KHz	35 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	60 pF/ft
Nom. Conductor DC Resistance @ 20 Deg. C	6.8 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg. C	2.7 Ohms/1000 ft
Max. Operating Voltage - Non-UL	600 V RMS
Max. Recommended Current	5.2 Amps per conductor @ 25°C

### PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
8428 010100	2 #18 EPDM BRD CR	100	6.3	BLACK	
8428 0101000	2 #18 EPDM BRD CR	1000	59	BLACK	C
8428 010500	2 #18 EPDM BRD CR	500	28	BLACK	C
8428 010U500	2 #18 EPDM BRD CR	U500	29	BLACK	

C = CRATE REEL PUT-UP.

Revision Number: 1      Revision Date: 07-26-2005

---

## **8428 Non-Paired - Two-Conductor, Low-Impedance 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.