



## 8413 Non-Paired - Two-Conductor, Low-Impedance Cable



For more information please  
call

1-800-Belden1

See Put-ups and Colors

### Description:

24 AWG stranded (45x40) TC alloy conductors, EPDM rubber insulation, conductive textile wrap (100% coverage), TC braid shield (56% coverage), cotton spiral, EPDM jacket.

### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

Number of Conductors	2
Total Number of Conductors	2
AWG	24
Stranding	45x40
Conductor Diameter	.024 in.
Conductor Material	Tinned Copper Alloy

#### INSULATION:

Insulation Material	EPDM - Ethylene Propylene Diene Monomer Rubber
Nom. Insulation Wall Thickness	.016 in.
Insulation Diameter	.065 in.

#### OVERALL CABLING:

Overall Cabling Color Code Chart :

Number	Color	Number	Color
1	White	2	Black

#### OUTER SHIELD:

Outer Shield Type	Tape/Braid/Spiral Serve
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Outer Shield Material :

Layer Number	Material Trade Name	Type	Material	% Coverage (%)
1		Tape	Conductive Textile	100
2		Braid	TC - Tinned Copper	56
3		Spiral Serve	Cotton	

Outer Shield % Coverage	100 %
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#### OUTER JACKET:

Outer Jacket Material	EPDM - Ethylene Propylene Diene Monomer Rubber
Outer Jacket Nominal Wall Thickness	.017 in.



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### OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.199 in.
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### MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +90°C
Non-UL Temperature Rating	90°C
Bulk Cable Weight	20.5 lbs/1000 ft.
Max. Recommended Pulling Tension	48 lbs.
Min. Bend Radius (Install)	2 in.

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	No

#### PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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### ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	55 Ohms
Nom. Inductance	0.19 µH/ft
Nom. Capacitance Conductor to Conductor @ 1 KHz	30 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	55 pF/ft
Nom. Conductor DC Resistance @ 20 Deg. C	28.7 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg. C	11.38 Ohms/1000 ft
Max. Operating Voltage - Non-UL	300 V RMS
Max. Recommended Current	2.2 Amps per conductor @ 25°C

### PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
8413 010100	2#24 EPDM SHLD EPDM	100	2.2	BLACK	
8413 010500	2 #24 EPDM SH EPDM	500	11	BLACK	
8413 010U500	2 #24 EPDM SHLD EPDM	U500	12	BLACK	

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Revision Date: 01-19-2006



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