

## 83515 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1



### Description:

24 AWG stranded (7x32) TC conductors, conductors cabled, plenum, FEP insulated, overall Beldfoil® (100% coverage) + TC braid shield (85% coverage), FEP jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
15	24	7x32	TC - Tinned Copper

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
FEP - Fluorinated Ethylene Propylene	.006

#### Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	85

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
FEP - Fluorinated Ethylene Propylene	.014

#### Overall Cable

Overall Cabling Lay Length & Direction:

Length (in.)
2.75

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	White
3	Red
4	Green
5	Orange
6	Blue
7	White/Black
8	Red/Black
9	Green/Black
10	Orange/Black
11	Blue/Black
12	Black/White
13	Red/White
14	Green/White
15	Blue/White

Overall Nominal Diameter:

0.227 in.

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## Mechanical Characteristics (Overall)

Operating Temperature Range:	-70°C To +200°C
Bulk Cable Weight:	68 lbs/1000 ft.
Max. Recommended Pulling Tension:	93 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.900 in.

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Flame Test

UL Flame Test:	NFPA 262
C(UL) Flame Test:	FT4, FT6

## Plenum/Non-Plenum

Plenum (Y/N):	Yes
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## Electrical Characteristics (Overall)

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
20

## Nom. Capacitance Cond. to Other Conductor &amp; Shield:

Capacitance (pF/ft)
36

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
24.0

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
3.9

## Max. Operating Voltage - UL:

Voltage
300 V RMS

## Max. Recommended Current:

Current
1.4 Amps per conductor @ 25°C

## Notes (Overall)

**Notes:** Plenum Cables, except for Flamarrest® jacket, are suitable for Outdoor and Direct Burial application.

## Related Documents:

## 83515 Multi-Conductor - Audio, Control and Instrumentation Cable

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83515 0021000	1,000 FT	53.000 LB	RED	C	15#24 FEP SH FEP

**Notes:**

C = CRATE REEL PUT-UP.

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