


## 83803 Non-Paired - Plenum-Rated Fire Alarm Cable

	<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p> <p>Color Code Chart : No. 2 and 2R (ICEA).pdf</p>
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**Description:**

12 AWG stranded (7x20) tinned copper conductors, FEP insulation, conductors cabled, 100% Beldfoil® shield with 85% tinned copper braid shield, FEP jacket.

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

Number of Conductors	3
Total Number of Conductors	3
AWG	12
Stranding	7x20
Conductor Material	TC - Tinned Copper

**INSULATION:**

Insulation Material Trade Name	Teflon®
Insulation Material	FEP - Fluorinated Ethylene Propylene
Nom. Insulation Wall Thickness	.016 in.

**OVERALL CABLING:**

Overall Cabling Lay Length	3.0 in.
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Overall Cabling Color Code Chart :

Number	Color	Number	Color
1	Black	3	Red
2	White		

**OUTER SHIELD:**

Outer Shield Material 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	85

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

Outer Jacket Material Trade Name	Teflon®
Outer Jacket Material	FEP - Fluorinated Ethylene Propylene
Outer Jacket Nominal Wall Thickness	.015 in.

**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter	.323 in.
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-70°C To +200°C
UL Temperature Rating	200°C, 80°C (UL AWM Style 2464), 105°C (UL AWM Style 1424)
Bulk Cable Weight	106 lbs/1000 ft.
Min. Bend Radius (Install)	3.25 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

NEC/(UL) Specification	FPLP, CMP
NEC Articles	760
CEC/C(UL) Specification	CMP
AWM Specification	UL Style 2464 (300 V 80°C), UL Style 1424 (300 V 105°C)
Other Specification	California State Fire Marshall

**FLAME TEST:**

UL Flame Test	UL910 Steiner Tunnel
C(UL) Flame Test	FT6

**PLENUM/NON-PLENUM:**

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

Nom. Capacitance Conductor to Conductor @ 1 KHz	32 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	55 pF/ft
Nom. Conductor DC Resistance @ 20 Deg. C	1.7 Ohms/1000 ft
Max. Operating Voltage - UL	300 V RMS (UL AWM Style 2464), 300 V RMS (UL AWM Style 1424)
Max. Recommended Current	20 Amps per conductor @ 25°C
Max. Recommended Current	20 Amps per conductor @ 25°C

**NOTES:**

Notes	This cable passes the UL 70, 00 BTU Flame Test (comparable to the IEEE 383 Flame Test) and are listed by the California State Fire Marshall. Component Recognized UL 2464, 300 V 80°C. Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.
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**PUT-UPS AND COLORS:**

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Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
83803 002100	3#12 FEP SH FEP	100	12.1	RED	C
83803 0021000	3#12 FEP SH FEP	1000	111	RED	C Z
83803 002500	3#12 FEP SH FEP	500	56.5	RED	C Z

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: 2      Revision Date: 09-03-2004

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