


**BELDEN**Cable™

**1502R Paired - Special Application Audio, Communication and Instrumentation**

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

22 AWG stranded (7x30) tinned copper conductors, twisted data pair, FPE insulation, Beldfoil® shield and tinned copper drain wire, 18 AWG stranded (16x30) tinned copper conductors, unshielded power pair, flame-retardant PVC insulation, PVC jacket, ripcord.

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

Number of Pairs	1
Number of Conductors	2
Total Number of Conductors	4

AWG :

Number of Pairs	AWG	Stranding	Conductor Material	Conductor Diameter (in.)
1	22	7x30	TC - Tinned Copper	
2	18	16x30	TC - Tinned Copper	

Stranding	7x30, 16x30
Conductor Material	TC - Tinned Copper

**INSULATION:**

Insulation Material Trade Name	Datalene®
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Insulation Material :

Layer Number	Material Trade Name	Material	Wall Thickness (in.)	Diameter (in.)
		F-R PVC - Flame Retardant Polyvinyl Chloride (Power)		
		HDFPE - High Density Foam Polyethylene (Data)		

Insulation Material (Multi-AWG) :

AWG	Layer Number	Material Trade Name	Material	Wall Thickness (in.)	Diameter (in.)
22		Datalene®	HDFPE - High Density Foam Polyethylene	.025	
18			F-R PVC - Flame Retardant Polyvinyl Chloride	.013	

Lay Length	2.0 in.
Twists/ft.	6.0

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Pair Color Code Chart :

Number	Color	Number	Color
1	Blue & White	2	Red & Black

**INNER SHIELD:**

Inner Shield Material Trade Name Beldfoil®

Inner Shield Type Tape

Inner Shield Material :

Layer Number/Description	Material Trade Name	Type	Material	% Coverage (%)	Stranding	Diameter (in.)	Conductor Material
22 AWG Pair	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100			

Inner Shield % Coverage 100 %

Inner Shield Drain Wire AWG 24

Inner Shield Drain Wire Stranding 7x32

Inner Shield Drain Wire Conductor Material TC - Tinned Copper

**OUTER SHIELD:**

Outer Shield Material Unshielded

**OUTER JACKET:**

Outer Jacket Material F-R PVC - Flame Retardant Polyvinyl Chloride

Outer Jacket Nominal Wall Thickness .039 in.

Outer Jacket Ripcord Yes

**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter .250 in.

**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range -20°C To +75°C

Non-UL Temperature Rating 75°C

Bulk Cable Weight 38.1 lbs/1000 ft.

Max. Recommended Pulling Tension 59.8 lbs.

Min. Bend Radius (Install) 2.5 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

NEC/(UL) Specification CMR

CEC/C(UL) Specification CMG

**FLAME TEST:**

UL Flame Test UL1581 Vertical Tray

C(UL) Flame Test FT4

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**PLENUM/NON-PLENUM:**

Plenum (Y/N)	N
Plenum Number	1502P

**ELECTRICAL CHARACTERISTICS:**

Nom. Characteristic Impedance :

Description	Nom. Characteristic Impedance (Ohms)
22 AWG Pair	100

Nom. Inductance :

Description	Nom. Inductance (µH/ft)
22 AWG	.232
18 AWG	.168

Nom. Capacitance Conductor to Conductor :

Description	Frequency (kHz)	Start Frequency (kHz)	Stop Frequency (kHz)	Nom. Capacitance Conductor to Conductor (pF/ft)
22 AWG Pair				14
18 AWG Pair				29

Nom. Cap. Cond. to Other Cond. & Shield :

Description	Frequency (kHz)	Start Frequency (kHz)	Stop Frequency (kHz)	Nom. Capacitance Cond. to other Conductor & Shield (pF/ft)
22 AWG Pair				38

Nom. Conductor DC Resistance @ 20 Deg. C :

Description	Nom. Conductor DC Resistance @ 20 Deg. C (Ohms/1000 ft)
22 AWG	16.3
18 AWG	6.9

Max. Operating Voltage - UL	300 V RMS
Max. Recommended Current	3.8 Amps per conductor @ 25°C (22 AWG); 7.2 Amps per conductor @ 25°C (18 AWG)

**NOTES:**

Notes	Sequential footage marking every two feet.
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**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1502R 0091000	2 #18 PVC +2 FS #22 FHDPEFRPVC	1000	42	WHITE	C
1502R 009500	2 #18 PVC +2 FS #22 FHDPEFRPVC	500	21	WHITE	C
1502R 0101000	2 #18 PVC +2 FS #22 FHDPEFRPVC	1000	42	BLACK	C
1502R 010500	2 #18 PVC +2 FS #22 FHDPEFRPVC	500	21	BLACK	C



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1502R G751000	2 #18 PVC +2 FS #22 FHDPEFRPVC	1000	42	AQUA	C
1502R G75500	2 #18 PVC +2 FS #22 FHDPEFRPVC	500	21	AQUA	C

C = CRATE REEL PUT-UP.

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