BELDENCable™

1502R Paired - Special Application Audio, Communication and Instrumentation

Metric Version

For more information please call

1-800-Belden1

See Put-ups and Colors

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 (mm)
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®

Insulation Material :

Layer Number	Material Trade Name	Material	Wall Thickness (mm)	Diameter (mm)
		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 (mm)	Diameter (mm)
22		Datalene®	HDFPE - High Density Foam Polyethylene	0.635	
18			F-R PVC - Flame Retardant Polyvinyl Chloride	0.33	

Lay Length	5.08 cm

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Twists/ft.	6.0

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 (mm)	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	0.991 mm
Outer Jacket Ripcord	Yes

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	6.35 mm

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +75°C
Non-UL Temperature Rating	75°C
Bulk Cable Weight	56.7 Kg/Km
Max. Recommended Pulling Tension	266.002 N
Min. Bend Radius (Install)	63.5 mm

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMR
CEC/C(UL) Specification	CMG

FLAME TEST:

UL Flame Test	UL1685 FT4 Loading

BELDEN Cable

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C(UL) Flame Test	FT4

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/m)
22 AWG	0.761
18 AWG	0.551

Nom. Capacitance Conductor to Conductor :

Description	Frequency (kHz)	Start Frequency (kHz)	Stop Frequency (kHz)	Nom. Capacitance Conductor to Conductor (pF/m)
22 AWG Pair				45.934
18 AWG Pair				95.149

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

Description	Frequency (kHz)	Start Frequency (kHz)	Stop Frequency (kHz)	Nom. Capacitance Cond. to other Conductor & Shield (pF/m)
22 AWG Pair				124.678

Nom. Conductor DC Resistance @ 20 Deg. C :

Description	Nom. Conductor DC Resistance @ 20 Deg. C (Ohms/km)
22 AWG	53.48
18 AWG	22.639

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.

PUT-UPS AND COLORS:

Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
1502R 0091000	2 #18 PVC +2 FS #22 FHDPEFRPVC	304.8	19.068	WHITE	C
1502R 009500	2 #18 PVC +2 FS #22 FHDPEFRPVC	152.4	9.534	WHITE	C
1502R 0101000	2 #18 PVC +2 FS #22 FHDPEFRPVC	304.8	19.068	BLACK	C

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1502R 010500	2 #18 PVC +2 FS #22 FHDPEFRPVC	152.4	9.534	BLACK	C
1502R G751000	2 #18 PVC +2 FS #22 FHDPEFRPVC	304.8	19.068	AQUA	C
1502R G75500	2 #18 PVC +2 FS #22 FHDPEFRPVC	152.4	9.534	AQUA	C

C = CRATE REEL PUT-UP.

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