Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

1633ESB Multi-Conductor - LAN, Networking, Data Cable

No longer Available
1-800-BELDEN1

For more Information please call

1-800-Belden1

Description:

24 AWG solid bare copper conductors, polypropylene insulation, overall Beldfoil® shield (100% coverage) plus a tinned copper braid shield (40% coverage), 26 AWG solid tinned copper drain wire, low smoke zero halogen jacket.

Usage (Overall)

Suitable Applications:	Shipboard LAN/Data, WI-FI, Wireless LAN, Outdoor Antenna, Radio, Broadband, RF, Where ABS Type Approval is Required

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
4	24	Solid	BC - Bare Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)	Dia. (in.)
PP - Polypropylene	0.011	0.043

Outer Shield

Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)
1	Tape	Aluminum Foil-Polyester Tape	100.000
2	Braid	TC - Tinned Copper	40.000

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
26	Solid	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
LSZH - Low Smoke Zero Halogen

Overall Cable

Overall Nominal Diameter:	0.248 in.

Pair

Pair Color Code Chart:

Number	Color
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +105°C
Bulk Cable Weight:	35 lbs/1000 ft.
Max. Recommended Pulling Tension:	18 lbs.

Min. Bend Radius (Install)/Minor Axis:	2 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG-LS
CEC/C(UL) Specification:	CMG-LS
IEEE Specification:	Std. 45 clause 23
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):	08/01/2006
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
Other Specification:	NEMA WC-63.1 Category 5e, UL 444. ABS Type Approval Certificate 05-HS500072A/3-DUP3

Flame Test

UL Flame Test:	UL1685 FT4 Loading, Limited Smoke
C(UL) Flame Test:	FT4, Limited Smoke
IEC Flame Test:	60332-1, 60332-3-22 (Category A)
IEEE Flame Test:	1202

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)
15

Maximum Capacitance Unbalance (pF/100 m):	330

Nominal Velocity of Propagation:

VP (%)
70

Maximum Delay:

Delay (ns/100 m)
538 @ 100MHz

Max. Delay Skew:

Delay Skew (ns/100 m)
45

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
9.38

Max. Operating Voltage - UL:

Voltage
300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)
3

Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. PSACR (dB)	Min RL (dB)	Min. SRL (dB)
1						
4	4.1	56.3	53.3	49	23.0	23.0
8						
10	6.5	50.3	47.3	41	25.0	25.0
16	8.3	47.3	44.3	36	25.0	25.0
20	9.3	45.8	42.5	33	20.0	25.0
25						
31.2	11.7	42.9	39.9	28	23.6	23.6
62.5	17.0	41.4	38.4	21	21.5	21.5
100	22.0	35.3	32.3	10	20.1	20.1

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. PSELFEXT (dB)
1	100 ± 15	100 ± 15	
4	100 ± 15	100 ± 15	49
8			
10	100 ± 15	100 ± 15	41
16	100 ± 15	100 ± 15	36
20	100 ± 15	100 ± 15	33
25			
31.2	100 ± 15	100 ± 15	28
62.5	100 ± 15	100 ± 15	21
100	100 ± 15	100 ± 15	10

Notes (Overall)

Notes: RJ-45 Compatible. Jacket sequentially marked at 1 meter intervals.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc

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