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1-800-Belden1

See Put-ups and Colors

Description:

24~AWG~Bonded-Pairs~solid~bare~copper~conductors,~polyolefin~insulation,~overall~Beldfoil @~(100%coverage)~plus~tinned~copper~braid~shield~(70%~coverage),~drain~wire,~industrial~grade~sunlight-~and~oil-resistant~PVC~jacket.~Seq.~marking~at~2~ft.~intervals

SUITABLE APPLICATIONS:

Suitable Applications	Industrial Ethernet, Harsh Environments, Category 5e, Gigabit Ethernet,
	100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component
	or Composite Video, AES/EBU Digital Audio, AES51, RS-422, Noisy
	Environments, CMX - Outdoor, EtherNet/IP TM

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	4
Total Number of Conductors	8
AWG	24
Stranding	Solid
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material PO - Polyolefin

Pair Color Code Chart:

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

OUTER SHIELD:

Outer Shield Material Trade Name

Beldfoil®

Outer Shield Type

Braid/Tape

Outer Shield Material:

Layer Number	Material Trade Name	Туре	Material	% Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	70

OUTER SHIELD DRAIN WIRE:

Outer Shield Drain Wire AWG	24
Outer Shield Drain Wire Stranding	Solid
Outer Shield Drain Wire Conductor Material	TC - Tinned Copper

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Outer Shield Diameter	.239 in.

OUTER JACKET:

Outer Jacket Material Industrial Grade PVC - Polyvinyl Chloride

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter .330 in.

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +75°C
Installation Temperature Range	-25°C To +75°C
Bulk Cable Weight	50 lbs/1000 ft.
Max. Recommended Pulling Tension	75 lbs.
Min. Bend Radius (Install)	1.32 in

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMR, CMX-OUTDOOR, UL444
CEC/C(UL) Specification	CMR
IEC Specification	IS11801 Category 5
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
TIA/EIA Specification	568B.2 Category 5e
Other Specification	NEMA WC-63.1 Category 5e, EtherNet/IPTM Compliant

FLAME TEST:

UL Flame Test	UL1661 Riser
CSA Flame Test	FT4

SUITABILITY:

Suitability - Outdoor	Yes	
Sunlight Resistance	Yes	
Oil Resistance	Yes	

PLENUM/NON-PLENUM:

Plenum (Y/N) N

ELECTRICAL CHARACTERISTICS:

Nom. Mutual Capacitance @ 1 KHz	15 pF/ft
Maximum Capacitance Unbalance (pF/100 m)	150 pF/100 m
Nominal Velocity of Propagation	70 %
Maximum Delay (ns/100 m)	538 @ 100MHz ns/100 m
Maximum Delay Skew (ns/100m)	45 ns/100 m
Maximum Conductor DC Resistance @ 20 Deg. C	9.38 Ohms/100 m



Maximum DCR Unbalance @ 20 Deg. C 3 %

Max. Operating Voltage - UL 300 V RMS

ELECTRICAL CHARACTERISTICS - PREMISE:

Premise Cable Electricals Table 1:

Frequency (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min. Return Loss (dB)	Min. Structural Return Loss (dB)
1	2.0	65.3	62.3	63.0	60.0	20.0	20.0
4	4.1	56.3	53.3	51.0	49.0	23.6	23.6
8	5.8	51.8	48.8	46.0	43.0	25.4	25.4
10	6.5	50.3	47.3	43.0	41.0	26.0	26.0
16	8.2	47.3	44.3	39.0	36.0	26.0	26.0
20	9.3	45.8	42.8	36.5	33.5	26.0	26.0
25	10.4	44.3	41.3	33.9	30.9	25.5	25.5
31.25	11.7	42.9	39.9	31.0	28.0	25.0	25.0
62.5	17.0	38.4	35.4	22.0	19.0	23.5	23.5
100	22.0	35.3	32.3	14.0	11.0	22.5	22.5

Premise Cable Electricals Table 2:

Frequency (MHz)	Input (Unfitted) Impedance (Ohms)	Fitted Impedance (Ohms)	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	95-110	63.8	60.8
4	100 ± 15	95-110	51.7	48.7
8	100 ± 15	95-107	45.7	42.7
10	100 ± 15	95-107	43.8	40.8
16	100 ± 15	95-107	39.7	36.7
20	100 ± 15	95-107	37.7	34.7
25	100 ± 15	95-107	35.8	32.8
31.25	100 ± 15	95-107	33.9	30.9
62.5	100 ± 15	95-107	27.8	24.8
100	100 ± 15	95-107	23.8	20.8

NOTES:

Notes

US Patent #'s 5, 606, 151; 5, 734, 126. EtherNet/IP is a trademark of ControlNet International, Ltd. under license by Open DeviceNet Vendor Association, Inc. Operating temperatures are subject to length de-rating. Cable passes -40C Cold Bend per UL 1581.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
7921A 0021000	4 PR #24 PP SH PVC	1000	55	RED	С
7921A 0061000	4 PR #24 PP SH PVC	1000	55	BLUE, LIGHT	С
7921A 0101000	4 PR #24 PP SH PVC	1000	55	BLACK	С
7921A 0102000	4 PR #24 PP SH PVC	2000	106	BLACK	С



7921A 1NH1000	4 PR #24 PP SH PVC	1000	55	TEAL 1NH	С

C = CRATE REEL PUT-UP.

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