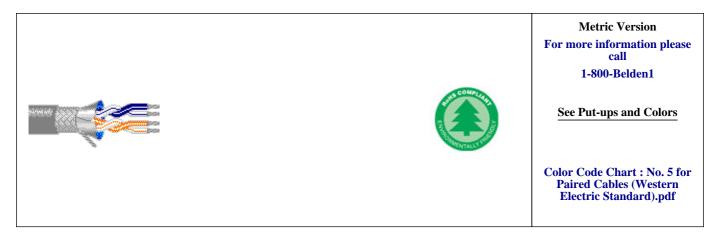
Detailed Specifications & Technical Data



BELDENCable^{**}

9842 Paired - Low Capacitance Computer Cable for EIA RS-485 Applications



Description:

24 AWG stranded (7x32) TC conductors, polyethylene insulation, twisted pairs, overall Beldfoil® (100% coverage) + TC braid shield (90% coverage), 24 AWG stranded TC drain wire, PVC jacket

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	2			
Total Number of Conductors	4			
AWG	24			
Stranding	7x32			
Conductor Material	TC - Tinned	Copper		
INSULATION:				
Insulation Material	PE - Polyethy	vlene		
Lay Length :				
Lay Length (cm)	Direction	Twists/ft (twist/m		wist/m)
2.54	Left Hand Lay	39.372		
Twists/ft.	12			
Pair Color Code Chart :				
Number	Color	Number		Color
1	White/Blue & Blue/White	2		White/Orange & Orange/White
OUTER SHIELD:				
Outer Shield Material Trade Name	Beldfoil®			
Outer Shield Type	Tape/Braid			
Outer Shield Material :				

Layer Number	Material Trade Name	Туре	Material	% Coverage (%)
1	Beldfoil®	Таре	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	90

Detailed Specifications & Technical Data



9842 Paired - Low Capacitance Computer Cable for EIA RS-485 Applications

Belden <mark>CDT</mark>

Duter Shield Drain Wire AWG24Duter Shield Drain Wire Stranding7x32Duter Shield Drain Wire Stranding7x32Duter Shield Drain Wire Conductor Material7c7 Timed CopperOUTER JACKET:Duter Jacket MaterialPVC - Polyvinyl ChlorideOVERALL COMINAL DAMETER:8x36 mmDorendl Nominal Diameter8x36 mmOuter Along Colspan="2">Outer		
Auter Shield Drain Wire Stranding 7.x32 Duter Shield Drain Wire Conductor Material Tc - Tinned Copper OUTER JACKET: Prolyvinyl Chloride OUTER JACKET: Prolyvinyl Chloride OVERALL NOMINAL DIAMETER: Scottanta Scottant	OUTER SHIELD DRAIN WIRE :	
Outer Shield Drain Wire Conduct MaterialTC - Tinned CopperOUTER JACKET:Outer Jacket MaterialPVC - Polyvinyl ChlorideOVERALL NOMINAL DIAMETER:Overall Nominal Diameter8.636 mmMECHANICAL CHARACTERISTICS:Operating Temperature Range-30°C To +80°CUI. Temperature Range-30°C To +80°CUI. Temperature Range-20268 Kg/KmMaka Recommended Pulling Tension386.903 NMax. Recommended Pulling Tension386.903 NMax. Recommended Pulling Tension20208 Kg/KmAppLICABLE SPECIFICATIONS AND AGENCY/CWFLIANCE:APPLICABLE SPECIFICATIONS AND AGENCY/CWFLIANCE:APPLICABLE SPECIFICATIONS AND AGENCY/CWFLIANCE:CU(UL) SpecificationCMCEC(UL) SpecificationCMCEC(UL) SpecificationCMCU CE Mark (Y/N)YesEU CE Mark (Y/N)YesEU CE Mark (Y/N)SPenaum (YN)NPlanaum (YN)NPlanaum (YN)NPlanaum (YN)NPlanaum (YN)NNon-Characteristic ImpedanceJ00/msNon-Characteristic Impedance100 Pupr/mNon-Characteristic Impedance20 OhmsNon-Characteristic ImpedanceS4430 F/mNon-Characteristic Impedance20 Sin NiNon-Characteristic Impedance20 Sin NiNon-Characteristic Impedance73.430 F/mNom-Characteristic Impedance73.430 F/mNom-Characteristic Impedance73.430 F/mNom-Characteristic Impedance73.430 F	Outer Shield Drain Wire AWG	24
der Jackt Aaerial VC Polyaipal Choide der Jackt Auerial Choide der Jackt Auerial Choide der Jach	Outer Shield Drain Wire Stranding	7x32
Dure Jacket Material PCC - Polyvinyl Chloride Overall Nominal Diameter 8.636 mm Devrall Nominal Diameter 8.636 mm MECHANICAL CHARACTERISTICS: 30°C To + 80°C Unremprature Range 80°C Balk Cable Weight 80°C Balk Cable Weight 80°C Max. Recommended Pulling Tension 86.993 N Appl. Cable SPECIFICATIONS AND AGENCUMPIANCE PULOSABLE SPECIFICATIONS AND AGENCUMPIANCE APPLICABLE SPECIFICATIONS AND AGENCUMPIANCE PULOSABLE SPECIFICATIONS AND AGENCUMPIANCE VIDUI Specification Max APPLICABLE SPECIFICATIONS AND AGENCUMPIANCE PULOSABLE SPECIFICATIONS AND AGENCUMPIANCE VECCULJ Specification CM CCCCULJ Specification CM CDCCULJ Specification CM EU CHAR (V/N) Yes EU CHAR COMPLENCUM Yes Plenum Number S00 / 100/004 EU CHAR (V/N) Na EU CHUNON-PLENUM Yes Plenum Number S02 / 100/005 Non-Capacitane Conductor Of MEME Jes/97 //100/001 Non-Capacitane Conductor Of MEME	Outer Shield Drain Wire Conductor Material	TC - Tinned Copper
OVERALL NOMINAL DIAMETER: Diverall Nominal Diameter 8.636 mm MECHANICAL CHARACTERISTICS: Diperating Temperature Range -30°C To +80°C Ut Temperature Rating 80°C Bulk Cable Weight 9.2.268 Kg/Km Max. Recommended Pulling Tension 366.993 N Ams. Recommended Pulling Tension 88.9 mm APPLICABLE SPECIFICATIONS AND AGENCY CMPLIAMEL SPECIFICATIONS AND AGENCY APPLICABLE SPECIFICATIONS AND AGENCY CMPLIAMEL SPECIFICATIONS CDC/CUL) Specification CM VEX/(U) Specification CM EUCCUCL Specification UL Style 2919 (30 V 80°C) EU CHARK (Y/N) Yes EU RoHS Compliance Date (mm/dd/yyyy): 01/02004 Plenum Number 8242 ELECTUCAL CHARACTERISTICS: SPS Nom. Capacitance Conductor	OUTER JACKET:	
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Ul remperature Rating80°CBulk Cable Weight92.268 Kg/KmBulk Cable Weight386.993 NMax. Recommended Pulling Tension386.993 NAPPLICABLE SPECIFICATIONS AND AGENCYWPLIANCE:APPLICABLE SPECIFICATIONS AND AGENCYWPLIANCE:APPLICABLE STANDARDS:CMCCUL) SpecificationCMCECC(UL) SpecificationUL Style 2919 (30 V 80°C)EU Ce Mark (Y/N)YesEU Rohl S Compliant (Y/N)YesEU Rohl S Compliance Date (mm/dd/yyy):01/01/2004Plenum Mynber28242Plenum Mynber120 OhmsEUCETRICAL CHARACTERISTICS:Non. Characteristic Impedance120 OhmsNon. Capacitance Conductor to Conductor # 1 KHz75.463 pF/mNoninal Delay5.25 ns/mNominal Delay5.25 ns/mNominal Delay5.25 ns/mNominal Dulay Conductor DC Resistance @ 20 Deg.C7.140 Ohms/kmNom Attenuation (dB/100 ft)1969 (@ 1 MHz) dB/100m	MECHANICAL CHARACTERISTICS:	
Bulk Cable Weigh 92.268 Kg/Km Max. Recommended Pulling Tension 386.993 N Min. Bend Radius (Install) 88.9 mm APPLICABLE SPECIFICATIONS AND AGENCY UPLIANCE: APPLICABLE STANDARDS: NEC(UL) Specification CM CEC/C(LL) Specification CM CEC/C(LL) Specification CM CEC/C(LL) Specification UL. Style 2919 (30 V 80°C) EU CE Mark (Y/N) Yes EU RoHS Compliant (Y/N) Yes EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004 Plenum (Y/N) N Plenum (Y/N) N Plenum Number 2842 ELECTRICAL CHARACTERISTICS: Yes Nom. Characteristic Impedance 120 Ohms Nom. Capacitance Conductor to Conductor @1 KHz 41.997 pF/m Nominal Velocity of Propagation 66 % Nominal Delay 5.25 ns/m Nominal Delay 5.25 ns/m Nominal Outer Shield DC Resistance @20 Deg. C 7.181 Ohms/km Nominal Outer Shield DC Resistance @20 Deg. C 7.218 Ohms/km	Operating Temperature Range	-30°C To +80°C
Max. Recommended Pulling Tension386.993 NMin. Bend Radius (Install)88.9 mmAPPLICABLE SPECIFICATIONS AND AGENCYVPLIANCE:APPLICABLE SPECIFICATIONS AND AGENCYAPPLICABLE STANDARDS:VPLIANCE:APPLICABLE STANDARDS:VPLIANCE:APPLICABLE STANDARDS:VPLOUSCOLSPECIFICATIONS AND AGENCYCOLSPECIFICATIONS AND AGENCYVPLOUSCOLSPECIFICATIONSVPLOUSVPLOUSVPLOUSVPLOUSPlenum (Y/N)Non. Characteristic Impedance10 OhmsAGENCARCTERISTICS:VPLOUSNom. Characteristic Impedance10 OhmsNom. Capacitance Conductor Col 1KHz4.1997 PF/mNom. Capacitance Conductor Col 1KHzAlispen formNominal Velocity of Propagation66 %Nominal Delay5.25 m/mNominal DelayAlist Ohms/kmNominal Outer Shield DC Resistance 020 Deg. Col7.18 Ohms/kmNominal Outer Shield DC Resistance 020 Deg. ColNominal Outer Shield DC Resistance 020 Deg. ColNominal Outer Shield DC Resistance 020 Deg.	UL Temperature Rating	80°C
Win. Bend Radius (Install) 88.9 mm APPLICABLE SPECIFICATIONS AND AGENCY Second Secon	Bulk Cable Weight	92.268 Kg/Km
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NuclearNEC/(UL) SpecificationCMCEC/C(UL) SpecificationCMAWM SpecificationUL Style 2919 (30 V 80°C)EU CE Mark (Y/N)YesEU RoHS Compliant (Y/N)YesEU RoHS Compliance Date (mm/dd/yyyy):01/01/2004PLENUM/NON-PLENUM:YesPlenum (Y/N)NPlenum (Y/N)NPlenum Y/N)120 OhmsELECTRICAL CHARACTERISTICS:Nom. Characteristic Impedance120 OhmsNom. Characteristic Impedance120 OhmsNom. Conductor to Conductor @ 1 KHz7.5.463 pF/mNominal Velocity of Propagation66 %Nominal Delay5.25 ns/mNom. Conductor DC Resistance @ 20 Deg. C7.218 Ohms/kmNominal Outer Shield DC Resistance @ 20 Deg. C7.218 Ohms/kmNom. Attenuation (dB/100 fi)1.969 (@ 1 MHz) dB/100m	APPLICABLE SPECIFICATIONS AND AGENCY	COMPLIANCE:
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Nom. Capacitance Conductor to Conductor @ 1 KHz41.997 pF/mNom. Cap. Cond. to Other Cond. & Shield @ 1 KHz75.463 pF/mNominal Velocity of Propagation66 %Nominal Delay5.25 ns/mNom. Conductor DC Resistance @ 20 Deg. C78.744 Ohms/kmNominal Outer Shield DC Resistance @ 20 Deg. C7.218 Ohms/kmNom. Attenuation (dB/100 ft)1.969 (@ 1 MHz) dB/100m	ELECTRICAL CHARACTERISTICS:	
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Nominal Delay5.25 ns/mNom. Conductor DC Resistance @ 20 Deg. C78.744 Ohms/kmNominal Outer Shield DC Resistance @ 20 Deg. C7.218 Ohms/kmNom. Attenuation (dB/100 ft)1.969 (@ 1 MHz) dB/100m	Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	75.463 pF/m
Nom. Conductor DC Resistance @ 20 Deg. C78.744 Ohms/kmNominal Outer Shield DC Resistance @ 20 Deg. C7.218 Ohms/kmNom. Attenuation (dB/100 ft)1.969 (@ 1 MHz) dB/100m	Nominal Velocity of Propagation	66 %
Nominal Outer Shield DC Resistance @ 20 Deg. C7.218 Ohms/kmNom. Attenuation (dB/100 ft)1.969 (@ 1 MHz) dB/100m	Nominal Delay	5.25 ns/m
Nom. Attenuation (dB/100 ft) 1.969 (@ 1 MHz) dB/100m	Nom. Conductor DC Resistance @ 20 Deg. C	78.744 Ohms/km
	Nominal Outer Shield DC Resistance @ 20 Deg. C	7.218 Ohms/km
An Oranting Valtage UI 200 V DMC	Nom. Attenuation (dB/100 ft)	1.969 (@ 1 MHz) dB/100m
	Max. Operating Voltage - UL	300 V RMS
Max. Recommended Current 2.1 Amps per conductor @ 25°C Page 2 of 3	Max. Recommended Current	

9842 Paired - Low Capacitance Computer Cable for EIA RS-485 Applications

PUT-UPS AND COLORS:

Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
9842 060100	2 PR #24 PE SH PVC	30.48	2.633	CHROME	
9842 0601000	2 PR #24 PE SH PVC	304.8	25.878	CHROME	С
9842 060500	2 PR #24 PE SH PVC	152.4	13.393	CHROME	С

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 07-21-2005

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Belden CDT Electronics Division believes this product to be in compliance with the following environmental regulations: California Proposition 65 Consent Judgment For Wire & amp; Cable Mfgs. (San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003); Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory. EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); And EU BFR (Directive 2003/11/EC, 6-Feb-2003). The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information and belief at the date of its publication. The information provided in the is a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden CDT Electronics Division declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.