Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

8769 Multi-Conductor - CM Rated Cables

For more Information please call

1-800-Belden1



General Description:

22 AWG stranded (7x30) TC conductor, polypropylene insulation, twisted pairs individually shielded with Beldfoil® (100% coverage), overall PVC jacket and 22 AWG stranded TC drain wire.

Physical Characteristics (Overall)								
Conductor AWG:								
# Pairs	# Pairs AWG Stranding Conductor Material Dia. (mm)							
19	22 7x30 TC - Tinned Copper 0.762							
	mber of Conductors:	38						
Insulation Insulation I	Material:							
	on Material Wall Thickness (mm) ypropylene 0.279							
Inner Shield Material:								
Inner Shield Trade Name Type Inner Shield Material Coverage (%) Beldfoil® (Z-Fold®) Tape Aluminum Foil-Polyester Tape 100								
Inner Shiel	d Drain Wire AWG:							
AWG 22	AWG							
Inner Shi	ield Drain Wire Stranding:	Stranded						
Inner Shi	ield Drain Wire Conductor Material:	TC - Tinned Copper						
Outer Jacke Outer Jack								
	acket Material Nom. Wall Thickness (mm)							
PVC - Po	plyvinyl Chloride 1.626							
Overall Cab	le							
Overall N	Iominal Diameter:	15.265 mm						
Pair Pair Color (Code Chart:							
Number	Color							
1	Black & Red							
2	Black & White							
3	Black & Green							
4	Black & Blue							
5	Black & Yellow							
6	Black & Brown							
7	Black & Orange							
8	Red & White							
9	Red & Green							
10	Red & Blue							
11	Red & Yellow							
12	Red & Brown							
13	Red & Orange							
14	Green & White							
15	Green & Blue							
16	Green & Yellow							
17	Green & Brown							
18	Green & Orange							
19	White & Blue							

Detailed Specifications & Technical Data





8769 Multi-Conductor - CM Rated Cables

UL Flame Test: UL 1085 UL Loading Plenum (VM): No Identified (International Content) No Ident (International Content)	Operating Temperature Range:		-20°C To +80°C	
Max. Recommended Pulling Tession: 1972.553 N Max. Recommended Pulling Tession: 1987.700 nm pplicable/Specifications and Agency Compliance (Overall) pplicable/Specification: Orl CECCULU Specification: Orl CECCULU Specification: Orl CECCULU Specification: Orl EU Contexte 2019/05/05 (0): Yes EU Contexte 2019/05/05 (0): Yes EU Contexte 2019/05/05 (0): Yes EU Contexte 2009/05/05 (0): Yes Euroscience 2000/05 (0):	UL Temperature Rating:		80°C (UL AWM Style 2919)	
No. Band Radius/Ninor Asis: 188 700 mm ppicable Specifications and Agency Compliance (Overall) ppicable Specifications Ch CECULI Specification: Ch CED Coll Speci Coll Specificati	Bulk Cable Weight:		346.751 Kg/Km	
ppicable Specifications and Agency Compliance (Overall) ppicable Standards & Environmental Programs NECUCUS Specifications: CM CGUE Uncerime SoftWall (Unit Specifications: CGU CGUE Unit Specifications: CGUE Unit Specification	Max. Recommended Pulling Ter	nsion:	1970.553 N	
Particular Scienciamics CM Security Securitations: CM Call (U) Specifications: U. Selve 2019 (00 V 80°C) EV Denoise 2019 (60 V 80°C) Ves IV Denoise 2019 (60 V 80°C) Ves IV Denoise 2019 (60 V 80°C) Ves EV Denoise 2019 (70 V 80°C) Ves <	Min. Bend Radius/Minor Axis:		158.750 mm	
National Section Sectin Sectin Sectin Section Section Section Section Section Section S	unlinghle Onesifications or	ad American Commission of	0	
Name CM CAULUS Specification: CM APM Specification: U. SNOW SPIC(SUSSC) APM Specification: U. SNOW SPIC(SUSSC) EURochew 2001/SEC (EURONE SI): Yes For pot S(CI ROWINE & Calable): Yes Prove SIC (SINE ROWER): Yes SINE ROWER COMEN			Overall)	
AWM Specification: U. Style 2419 (30 V 80°C) EU Directive 2011/85/EU (ROHS II): Yes EU Directive 2003/85/C (EUX): Yes Filme Tost: Yes MI Order #33 (China Rob18): Yes MI Order #33 (China Rob18): Yes Vice Filme Tost: UL 1085 UL Loading Plenum TMR: No Plenum TMR: No Vice Statistics (Overall) No Statistics (Inpediance Unitity of Propagation: No Statistics (Statistics (Overall) No Statistics (Statistics (Overall) No Statistics (Statistics (Overall) No Statistics (Statistics (St			СМ	
EU Directive 2011/05/EU (ROHS 1): Yes EU Directive 2009/05/EC (ELV): Yes EU Directive 2009/05/EC (RMRS): Yes ROM Order 433 (Chine Robid): Yes Flame Test: UL fla65 UL Loading UP Formatione: No Plenum (YMR): No Von Characteristic (Overall) No Von Characteristic Impediance: No RD Capacitance Conductor to Conductor: Capacitance (SMRM) 02:00005 No Von Characteristic Impediance: No 02:0005 No Von Characteristic Impediance: No 02:0005 No Von Characteristic Impediance: No 02:0005 No 02:0005 No 02:0005 No	CEC/C(UL) Specification:		СМ	
EUC E Mark: Yes EUD Decides 2000/SSEC [EUD): Yes EUD Recides 2002/SSEC [EUDES): Yes EUD Recides 2002/SSEC [GPRI): Yes Mil Order #32 (GPRI): Yes Mil Order #32 (GNI): Yes Parame Test UL 1885 UL Loading Plenum Y(N): No Recides 2007/SSEC (Overall) Wester 2007/SSEC (Overall) Win: Characteristic (Brokers): No EdetFicial Characteristic (Brokers): Wester 2007/SSEC (Soverall) Win: Characteristic (Brokers): No EdetFicial Characteristic (Brokers): Wester 2007/SSEC (Soverall) Win: Characteristic (Brokers): No Souties: Souties: Bookers: Souties:	AWM Specification:		UL Style 2919 (30 V 80°C)	
EU Directive 2002/35/EC (RVH3): Yes EU Directive 2002/35/EC (RVH3): Yes EU Directive 2002/35/EC (RVH3): 0101/2004 EU Directive 2002/35/EC (RVH3): Yes CA Prop 65 (CJ for Wire & Cablo): Yes MID Order #30 (China RvH3): Yes Tem Test: UL 1885 UL Leading UP num Y(N): No Electrical Characteristics (Overall) No Vencomscience (MWD) No Evencom Y(N): No Eventriset (VI): Yes <	EU Directive 2011/65/EU (ROHS	; II):	Yes	
EU Drective 2002/BSEC (RoHS): Yes EU RoHS Compliance Data (minidalyyyy): 0101/2004 EU Drective 2002/BSEC (WEEE): Yes EU Drective 2002/BSEC (ROHES): Yes CA Prop 85 (CJ for Wire & Cablo): Yes Min Order #39 (China RoHS): Yes U Flame Test: UL Habs UL Loading U Flame Test: UL Habs UL Loading Denomination Planem No Beckinca (China Cotta): No Indications: Implications: Implications: No Indications: Implications: Implications: No Indications: Implications: Implications: Implications:	EU CE Mark:		Yes	
EU RoHS Compliance Date (mmiddlyyyy): 01/01/2004 EU Directive 200298EC (WEEE): Yes EU Directive 200298EC (WEEE): Yes EU Directive 200298EC (WEEE): Yes CA Prop 66 (CJ or Wire & Cable): Yes Mill Order 83D (china RoHS): Yes Tame Test UL 1685 UL Loading Plenum (YM): No Plenum (YM): No Iootcable: Iootcable: mpddance?/form Iootcable: mpddance?/form Iootcable: Mill Order 80000ccb Iootcable: mpddance?/form Iootcable: Mill Order 90000ccb Iootcable: Mill Order 90000ccb Iootcable: Mill Order 90000ccb Iootcable: Iootcable: Iootcable: Mill Order 90000ccb Iootcable: Iootcable: Iootcable: Iootcable: Iootcable: Iootcable: Iootcable: Iootcable: Iootcable: Iootcable: Iootcable: Iootcable: Iootcable: Iootcab	EU Directive 2000/53/EC (ELV):		Yes	
EU Directive 2002/99/EC (VIEE): Yes EU Directive 2003/11/EC (BFR): Yes CA Prop 65 (C) for Wire & Cable): Yes MII Order #38 (China RoH5): Yes Filmen Test: UI. 1685 UL. Loading Plenum (YM): No Electrical Characteristics (Overall) No Electrical Characteristics (Overall) Non. Characteristic Impedance: Impedance (Oth) 90 Non. Characteristic Impedance: Impedance (Oth) 90 90 90 90 90 90 90 90 90 90	EU Directive 2002/95/EC (RoHS):	Yes	
EU Directive 2002/96/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes CA Pop 66 (CJ for Wire & Cable): Yes INI Order #39 (China Reh5): Yes Flame Test: UL 1685 UL Loading Plenum (YM): No Plenum (YM): No Plenum (YM): No Characteristics (Overall) Soccess S	EU RoHS Compliance Date (mm	n/dd/yyyy):	01/01/2004	
CA Prop 65 (CJ for Win & Cabio): Yes MI Order #39 (China RoH8): Yes UL Flame Test UL 1885 UL Loading Plenum (YN): No Plenum (YN): No Reman (YN): No Indectance (pHm) 90 90 90 Nom. Indectance (pHm) 90			Yes	
CAProp 65 (CJ for Win & Cabie): Yes MI Order #39 (China RoH3): Yes Flame Test UL flame Tost: UL Flame Tost: UL flame Tost: UL Flame Tost: UL flame Tost: Plenum (YN): No Plenum (YN): No Capacitation (Point) Solution (Point) Solution (Point) Solution (Point) <			Yes	
MI Order #39 (China RoH3): Yes Flame Test UL 1885 UL Loading PlenumYon-Plenum PlenumYon/Plenum PlenumYon/Plenum No Status Contractoristics (Overall) No Nom. Intractoristic Inpedance: Impedance (Mrm) Solos Solos Nom. Inductance: Impedance (Mrm) Solos Solos Nom. Capacitance Conductor to Conductor: Capacitance (pfrm) Solos Solos Nom. Capacitance (pfrm) Solos Nom. Conscitance Conductor to Conductor & Shield: Capacitance (pfrm) Solos Solos Nom. Conjusting Vortage Justine: Vertage Description Solos Solos Nom. Conjusting Vortage Justine: Vertage Description Solos Solos Solos Solos Nom. Conjusting Vortage Justine: Solos Vortage Description Solos Solos Vartas La Arit Mominal Shield DC Resistance @ 20 Deg. C: 34.779 Ohm/km Nor. Conjusting Vortage Overstription Solos Solos <			Yes	
UL Flame Test: UL 1985 UL Loading Plenum VNon-Plenum No Plenum (Y/N): No Cottrial Characteristics (Overall) No Nom. Characteristic (Overall) No Nom. Characteristics (Overall) No Nom. Characteristics (Overall) No Nom. Capacitance (offm) Sold Sold Sold Sold Sold Sold Sold Sold		-,		
UL Flame Test: UL 1085 UL Loading Plenum (Yin): No Recum (Yin): No Contractor Site (Soverall) No Nom. Characteristic Impedance: Impedance (Ohm) 0 Impedance (Ohm) 0.5005 Impedance (Ohm) 0.5105 Impedance (Ohm) <td></td> <td></td> <td></td> <td></td>				
Plenum (YN): No Clotical Claracteristics (Overall) Nome: Characteristic Impedance: Impedance (Oming) Nome: Inductance Nome: Inductance (Infing) Sassian Nome: Capacitance Conductor to Conductor: Impedance (Opfing) Nome: Capacitance (Opfing) Nome: Constructor DC Resistance Nome: Constructor DC Resistance (20 Deg. Cite) Mathematication (20 Opting) Nome: Constructor (20 Constructor) Mathematication (20 Opting) Nome: Constructor) Mathematicati (20 Opting) Nome: Construct			UL1685 UL Loading	
Identical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 30 Nom. Inductance Inductance (IHim) 0.39058 Nom. Capacitance Conductor to Conductor: Capacitance (PFM) 88 43 Nom. Capacitance (opfin) 80.453 Nominal Velocity of Propagation: VP (%) 65 Nominal Velocity of Propagation: VP (%) 643 Nom. Capacitance (pFM) Nominal Velocity of Propagation: VP (%) 65 Nom. Conductor DC Resistance: DCR @ 20°C (Omnkm) 92.15 Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 34.779 Ohm/km Max. Operating Voltage - UL: Value Description 30 V RMS [U. AVM Style 2919] 30 V RMS [MA] Max. Recommended Current: Lamper conductor @ 25°C				
Nom. Characteristic Impedance (Ofm) 50 Nom. Inductance (Infim) 0.39059 Nom. Capacitance Conductor to Conductor : Capacitance (Drim) 9.4.3 Nom. Capacitance (Drim) 10.455 Nom. Capacitance (Prim) 10.455 Nom. Capacitance (Pr	Plenum/Non-Plenum			
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 34.779 Ohm/km Max. Operating Voltage - UL: Voltage Description 30 V RMS UL AWM Style 2919 300 V RMS CM Max. Recommended Current: Current 1 Amp per conductor @ 25°C ULU Ups and Colors:	Plenum (Y/N): electrical Characteristics (O Nom. Characteristic Impedance: Impedance (Ohm)	verall)	No	
Max. Operating Voltage - UL: Voltage Description 30 V RMS UL AWM Style 2919 300 V RMS CM Max. Recommended Current: Current 1 Amp per conductor @ 25°C Put Ups and Colors:	Electrical Characteristics (O Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (µH/m) 0.59058 Nom. Capacitance Conductor to Cor Capacitance (pF/m) 98.43 Nom. Capacitance Cond. to Other Co Capacitance (pF/m) 180.455 Nominal Velocity of Propagation: VP (%) 66 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km)	nductor:	Νο	
Voltage Description 30 V RMS UL AWM Style 2919 300 V RMS CM Max. Recommended Current: Current 1 Amp per conductor @ 25°C Put Ups and Colors:	Plenum (Y/N): Electrical Characteristics (O Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (µH/m) 0.59058 Nom. Capacitance Conductor to Cor Capacitance (pF/m) 98.43 Nom. Capacitance Cond. to Other Cor Capacitance (pF/m) 180.455 Nominal Velocity of Propagation: VP (%) 66 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 49.215	nductor: onductor & Shield:		
	Plenum (Y/N): Electrical Characteristics (O Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (µH/m) 0.59058 Nom. Capacitance Conductor to Cor Capacitance (pF/m) 98.43 Nom. Capacitance Cond. to Other Cor Capacitance (pF/m) 180.455 Nominal Velocity of Propagation: VP (%) 66 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 49.215 Ind. Pair Nominal Shield DC Res	nductor: onductor & Shield:		
	Plenum (Y/N): Electrical Characteristics (O Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (µH/m) 0.59058 Nom. Capacitance Conductor to Cor Capacitance (pF/m) 98.43 Nom. Capacitance Cond. to Other Cor Capacitance (pF/m) 180.455 Nominal Velocity of Propagation: VP (%) 66 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 49.215 Ind. Pair Nominal Shield DC Res Max. Operating Voltage - UL: Voltage Description 30 V RMS UL AWM Style 2919 300 V RMS CM Max. Recommended Current: Current	nductor: onductor & Shield:		

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8769 Multi-Conductor - CM Rated Cables

8769 060100	100 FT	25.300 LB	CHROME	С	19 FS PR #22 HDPE PVC
8769 0601000	1,000 FT	248.000 LB	CHROME	С	19 FS PR #22 HDPE PVC
8769 060500	500 FT	125.000 LB	CHROME	С	19 FS PR #22 HDPE PVC
8769 0605000	5,000 FT	1,175.000 LB	CHROME		19 FS PR #22 HDPE PVC

Notes:

C = CRATE REEL PUT-UP.

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