Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION





9729 Multi-Conductor - Shielded Twisted Pair Cable

For more Information please call

1-800-Belden1



General Description:

24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, twisted pairs, individually Beldfoil® shielded (100% coverage), 24 AWG stranded tinned copper drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
2	24	7x32	TC - Tinned Copper	0.6096

Total Number of Conductors: 4

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Datalene®	FPE - Foam Polyethylene	0.483

Inner Shield

Inner Shield Material:

Inner Shield Trade Name		Type	Inner Shield Material	Coverage (%)
	Beldfoil® (Z-Fold®)	Tape	Aluminum Foil-Polyester Tape	100

Inner Shield Drain Wire AWG:



Inner Shield Drain Wire Stranding: 7x32

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.219

Overall Cable

Overall Nominal Diameter: 6.756 mm

Pair

Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White

Pair Lay Length & Direction:

Lay Length (mm)	Twists (twist/m)	Direction
44.450	22.639	Left Hand

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C	
UL Temperature Rating:	80C (UL AWM Style 2919)	
Bulk Cable Weight:	52.087 Kg/Km	

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Max. Recommended Pulling Tension:	97.860 N
Min. Bend Radius/Minor Axis:	69.850 mm

Applicable Specifications and Agency Compliance (Overall)

Ap

Applicable Standards & Environmental Prog	rams			
NEC/(UL) Specification:	CM			
NEC Articles:	800			
CEC/C(UL) Specification:	CM UL Style 2919 (30 V 80°C) Yes			
AWM Specification:				
EU Directive 2011/65/EU (ROHS II):				
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):	01/01/2004			
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			
Flame Test				
UL Flame Test:	UL1685 UL Loading			
CSA Flame Test:	FT1			
Suitability				
Suitability - Indoor:	Yes			
Plenum/Non-Plenum				

No

89729, 82729

Plenum (Y/N):

Electrical Characteristics (Overall)

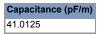


Plenum Number:

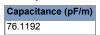
Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

Ind. Pair Nominal Shield DC Resistance @ 20 49.215 Ohm/km Deg. C:

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Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
.384	2.42794
.7056	2.85447
.768	2.88728
1.024	3.08414
1.4112	3.31381
1.536	3.37943
2.048	3.70753
2.8224	4.23249
3.072	4.42935
4.096	5.15117
5.6448	5.84018
6.144	6.03704
8.192	6.98853
11.2896	8.03845
12.288	8.43217
24.576	11.7132

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Description	Current
10C temperature rise	1 Amp per conductor @ 25°C ambient

Notes (Overall)

Notes: Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9729 060100	100 FT	4.300 LB	CHROME		2 FS PR #24 FHDPE PVC
9729 0601000	1,000 FT	38.000 LB	CHROME	С	2 FS PR #24 FHDPE PVC
9729 06010000	10,000 FT	390.000 LB	CHROME	CY	2 FS PR #24 FHDPE PVC
9729 060500	500 FT	20.500 LB	CHROME	С	2 FS PR #24 FHDPE PVC
9729 0605000	5,000 FT	185.000 LB	CHROME	С	2 FS PR #24 FHDPE PVC

Notes:

Y = FINAL PUT-UP LENGTH MAY VARY -10% TO +20% FROM LENGTH SHOWN.MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

Revision Date: 02-07-2017 Revision Number: 3

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