

8729 Multi-Conductor - Audio, Control and Instrumentation Cable



Description:

22 AWG stranded (19x34) tinned copper conductors, conductors cabled, polyethylene insulation, overall Beldfoil® shield (100% Coverage), 23 AWG and 25 AWG drain wires, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
4	22	19x34	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
PE - Polyethylene	.016

Outer Shield

Outer Shield Material:

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

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
3-23; 1-25	Solid; 7x33	TCCS - Tinned Copper Covered Steel

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.051

Overall Cabling

Overall Cabling Lay Length & Direction:

Length (in.)	Twists (ft.)
1.75	6.8

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red
3	Green
4	Clear

Overall Nominal Diameter: 0.257 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +75°C
UL Temperature Rating:	75°C (UL AWM Style 2094)
Bulk Cable Weight:	40.700 lbs/1000 ft.
Max. Recommended Pulling Tension:	100 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.600 in.

8729 Multi-Conductor - Audio, Control and Instrumentation Cable

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM, CL3
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 2094 (300 V 75°C)
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
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
22

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
42

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
14

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
12.3

Max. Operating Voltage - UL:

Voltage
300 V RMS (UL AWM Style 2094)

Max. Recommended Current:

Current
2.3 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8729 009U1000	1,000 FT	45.000 LB	WHITE		4 #22 PE SHLD PVC
8729 009U500	500 FT	23.000 LB	WHITE		4 #22 PE SHLD PVC
8729 0091000	1,000 FT	47.000 LB	WHITE	C	4 #22 PE SHLD PVC
8729 009500	500 FT	21.500 LB	WHITE	C	4 #22 PE SHLD PVC

Notes:

C = CRATE REEL PUT-UP.

Overall Beldfoil® Shield

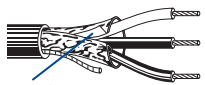
Audio, Control and Instrumentation Cables

Non-Plenum

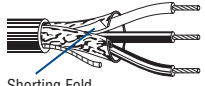
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

22 AWG Stranded (7x30) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire

Polypropylene Insulation • Brown PVC Jacket

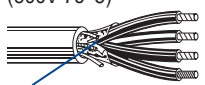
 <p>Z-Fold®</p>	300V RMS 9770	NEC:	3	Black,	U-500	U-152.4	9.0	4.1	.008	.20	.020	.51	.145	3.68	32	105	60	197		
		CM		Red,	500	152.4	9.0	4.1												
		CEC:		White	U-1000	U-304.8	18.0	8.2												
		CM			1000	304.8	17.0	7.7												

Polyethylene Insulation • Chrome PVC Jacket

 <p>Shorting Fold</p>	UL AWM Style 2093 (300V 60°C) 8771	NEC:	3	Black,	250	76.2	6.3	2.8	.016	.41	.033	.84	.199	5.05	23	75	41	134		
		CM		Red,	U-500	U-152.4	12.0	5.5												
		CEC:		Clear	500	152.4	12.0	5.5												
		CM			U-1000	U-304.8	23.0	10.4												
					1000	304.8	24.0	10.9												
				10000†	3048.0	240.0	109.1													

22 AWG Stranded (19x34) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 23 and 25 AWG Drain Wires††

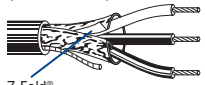
Polyethylene Insulation • White PVC Jacket

 <p>Z-Fold®</p>	UL AWM Style 2094 (300V 75°C) 8729	NEC:	4	Black,	U-500	U-152.4	23.0	10.5	.016	.41	.051	1.30	.257	6.53	22	72	42	138		
		CM, CL3		Red,	500	152.4	21.5	9.8												
		CEC:		Green,	U-1000	U-304.8	45.0	20.4												
		CM		Clear	1000	304.8	47.0	21.4												

†† 8729 has three 23 AWG solid and one 25 AWG stranded tinned copper-coated steel drain wires.

20 AWG Stranded (7x28) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire

Polyethylene Insulation • Chrome PVC Jacket

 <p>Z-Fold®</p>	UL AWM Style 2093 (300V 60°C) 8772	NEC:	3	Black,	U-500	U-152.4	16.0	7.3	.016	.41	.033	.84	.218	5.54	27	89	51	167		
		CM		Red,	500	152.4	16.0	7.3												
		CEC:		Clear	U-1000	U-304.8	31.0	14.1												
		CM			1000	304.8	32.0	14.5												

TC = Tinned Copper

*Capacitance between conductors.

**Nominal capacitance conductor to conductor and shield.

†Final put-up may vary -10% to +20%. May contain two pieces, minimum length of any one piece is 1500 ft.