

**Description:**

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

Physical Characteristics (Overall)**Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
15	22	7x30	TC - Tinned Copper	.030

Insulation**Insulation Material:**

Insulation Material	Dia. (in.)
PP - Polypropylene	.050

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:

AWG
22

Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Shield**Outer Shield Material:**

Outer Shield Material
Unshielded

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 0.548 in.

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

Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
1.750	6.850

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	178.100 lbs/1000 ft.
Max. Recommended Pulling Tension:	350 lbs.
Min. Bend Radius (Install)/Minor Axis:	5.600 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 2919 (30 V 80°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
----------------	-------------------

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Electrical Characteristics (Overall)**Nom. Characteristic Impedance:**

Impedance (Ohm)
50

Nom. Inductance:

Inductance (µH/ft)
0.18

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
30

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
55

Nominal Velocity of Propagation:

8776 Multi-Conductor - CM Rated Cable

VP (%)

66

Nom. Conductor DC Resistance:**DCR @ 20°C (Ohm/1000 ft)**

15

**Ind. Pair Nominal Shield DC Resistance @ 20
Deg. C:** 10.600 Ohm/1000 ft

Max. Operating Voltage - UL:**Voltage**

30 V RMS (UL AWM Style 2919)

300 V RMS (CM)

Max. Recommended Current:**Current**

1.4 Amps per conductor @25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8776 060100	100 FT	18.800 LB	CHROME	C	15 FS PR #22 PP PVC
8776 0601000	1,000 FT	187.000 LB	CHROME	C	15 FS PR #22 PP PVC
8776 060500	500 FT	93.000 LB	CHROME	C	15 FS PR #22 PP PVC

Notes:

C = CRATE REEL PUT-UP.

Individually Shielded

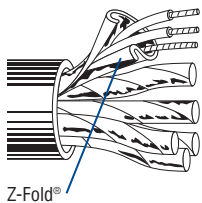
Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 22 AWG Stranded TC Drain Wire

Polypropylene Insulation • Chrome PVC Jacket

UL AWM Style 2919
(30V 80°C)



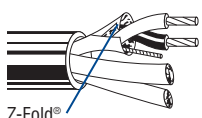
8777	NEC:	3	See	100	30.5	4.7	2.1	15.0Ω/M'	10.6Ω/M'	.273	6.93	50	66%	30	98	55	180
	CM		Chart 3	250	76.2	10.0	4.5	49.2Ω/km	34.8Ω/km								
	CEC:		(Tech Info	U-500	U-152.4	21.0	9.5										
	CM		Section)	500	152.4	20.0	9.1										
				U-1000	U-304.8	41.0	18.6										
				1000	304.8	44.0	20.0										
				1640	499.9	70.5	32.0										
8778	NEC:	6	See	100	30.5	8.4	3.8	15.0Ω/M'	10.6Ω/M'	.362	9.19	50	66%	30	98	55	180
	CM		Chart 3	250	76.2	19.0	8.6	49.2Ω/km	34.8Ω/km								
	CEC:		(Tech Info	500	152.4	43.0	19.5										
	CM		Section)	1000	304.8	83.0	37.7										
8774	NEC:	9	See	100	30.5	11.5	5.2	15.0Ω/M'	10.6Ω/M'	.417	10.59	50	66%	30	98	55	180
	CM		Chart 3	250	76.2	29.5	13.4	49.2Ω/km	34.8Ω/km								
	CEC:		(Tech Info	500	152.4	57.5	26.1										
	CM		Section)	1000	304.8	113.0	51.3										
8775	NEC:	11	See	100	30.5	12.1	5.5	15.0Ω/M'	10.6Ω/M'	.464	11.79	50	66%	30	98	55	180
	CM		Chart 3	500	152.4	65.5	29.7	49.2Ω/km	34.8Ω/km								
	CEC:		(Tech Info	1000	304.8	130.0	59.0										
	CM		Section)														
9768	NEC:	12	See	100	30.5	13.2	6.0	15.0Ω/M'	10.6Ω/M'	.464	11.79	50	66%	30	98	55	180
	CM		Chart 3	250	76.2	36.5	16.5	49.2Ω/km	34.8Ω/km								
	CEC:		(Tech Info	500	152.4	73.5	33.4										
	CM		Section)	1000	304.8	143.0	65.0										
8776	NEC:	15	See	100	30.5	17.8	8.1	15.0Ω/M'	10.6Ω/M'	.548	13.92	50	66%	30	98	55	180
	CM		Chart 3	250	76.2	49.5	22.5	49.2Ω/km	34.8Ω/km								
	CEC:		(Tech Info	500	152.4	98.0	44.5										
	CM		Section)	1000	304.8	197.0	89.5										
9769	NEC:	17	See	100	30.5	20.0	9.1	15.0Ω/M'	10.6Ω/M'	.577	14.66	50	66%	30	98	55	180
	CM		Chart 3	500	152.4	109.0	49.5	49.2Ω/km	34.8Ω/km								
	CEC:		(Tech Info	1000	304.8	215.0	97.7										
	CM		Section)														
8769	NEC:	19	See	100	30.5	22.9	10.4	15.0Ω/M'	10.6Ω/M'	.603	15.32	50	66%	30	98	55	180
	CM		Chart 3	500	152.4	123.0	55.8	49.2Ω/km	34.8Ω/km								
	CEC:		(Tech Info	1000	304.8	244.0	110.8										
	CM		Section)														
8773	NEC:	27	See	100	30.5	33.9	15.4	15.0Ω/M'	10.6Ω/M'	.709	18.00	50	66%	30	98	55	180
	CM		Chart 3	250†	76.2	83.8	38.0	49.2Ω/km	34.8Ω/km								
	CEC:		(Tech Info	500	152.4	163.0	74.0										
	CM		Section)	1000	304.8	341.0	154.8										
9767	NEC:	37	See	500†	152.4	224.0	101.8	15.0Ω/M'	10.6Ω/M'	.800	20.32	50	66%	30	98	55	180
	CM		Chart 3	1000†	304.8	481.0	218.6	49.2Ω/km	34.8Ω/km								
	CEC:		(Tech Info														
	CM		Section)														

For Plenum versions of 8777,
see 88777, 87777 or 82777.

For Plenum versions of 8778,
see 88778, 87778 or 82778.

Polypropylene Insulation • Black Low-Smoke, Zero-Halogen Jacket

U300V RMS, Non-conduit



8777SB	NEC:	3	See	U-500†	U-152.4	19.5	8.9	15.0Ω/M'	10.6Ω/M'	.273	6.93	50	66%	30	98	55	180
	CMG-LS		Chart 3	U-1000	U-304.8	38.0	17.3	49.2Ω/km	34.8Ω/km								
	CEC:		(Tech Info	1000†	304.8	39.0	17.7										
	CMG-LS FT4		Section)														
	Limited Smoke																

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.

† Spools are one piece, but length may vary -0 to +20% from length shown.

†† Final put-up length may vary -10% to +20% from length shown. May contain 2 pieces. Minimum length of any one piece is 1500 ft.