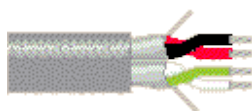


## 9402 Multi-Conductor - Audio, Control and Instrumentation Cable



### Description:

20 AWG stranded (7x28) TC conductors, semi-rigid PVC insulation, twisted pairs, individually shielded w/Beldfoil® (100% coverage), 22 AWG stranded TC drain wire, overall PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
2	20	7x28	TC - Tinned Copper

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (in.)
S-R PVC - Semi-Rigid Polyvinyl Chloride	.010

#### 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: 19x34

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.041

#### Overall Cabling

Overall Nominal Diameter: 0.300 in.

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Red & Black
2	Green & White

##### Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
1.750	6.900

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +80°C

UL Temperature Rating: 80°C (UL AWM Style 2919)

Bulk Cable Weight: 46.500 lbs/1000 ft.

Max. Recommended Pulling Tension: 72 lbs.

## 9402 Multi-Conductor - Audio, Control and Instrumentation Cable

Min. Bend Radius (Install)/Minor Axis: 3 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMG

CEC/C(UL) Specification: CMG

AWM Specification: UL Style 2464 (300 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): 04/01/2005

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

C(UL) Flame Test: FT4

#### Plenum/Non-Plenum

Plenum (Y/N): No

### Electrical Characteristics (Overall)

#### Nom. Inductance:

Inductance (µH/ft)

0.167

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

55

#### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

95

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

9.3

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 12 Ohm/1000 ft

#### Max. Operating Voltage - UL:

Voltage

300 V RMS (UL AWM Style 2464)

#### Max. Recommended Current:

Current

3.1 Amps per conductor @ 25°C

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9402 060U500	500 FT	26.000 LB	CHROME		2 FS PR #20 PVC PVC
9402 0601000	1,000 FT	52.000 LB	CHROME	C	2 FS PR #20 PVC PVC

#### Notes:

C = CRATE REEL PUT-UP.

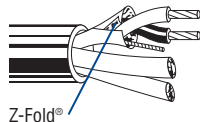
# Individually Shielded

Audio, Control and Instrumentation Cables  
Plenum-Rated and Non-Plenum

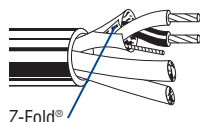
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

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

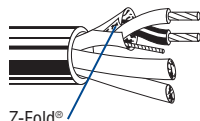
**Plenum • FEP Insulation • Natural Flamarrest® Jacket**

 <p>300V RMS</p> <p>Z-Fold®</p>	<b>82777</b>	NEC:	3	See	U-500†	U-152.4	19.5	8.9	14.7Ω/M'	11.3Ω/M'	.237	6.02	46	62%	35	115	76	249	
		CMP		Chart 3	U-1000	U-304.8	38.0	17.3	48.2Ω/km	37.1Ω/km									
		CEC:		(Tech Info	1000†	304.8	39.0	17.7											
		CMP FT6		Section)															
	<b>82778</b>	NEC:	6	See	1000†	304.8	71.0	32.2	14.7Ω/M'	11.3Ω/M'	.314	7.98	46	62%	35	115	76	249	
CMP			Chart 3						48.2Ω/km	37.1Ω/km									
CEC:			(Tech Info																
CMP FT6			Section)																

**Plenum • FEP Insulation • Red FEP Jacket**

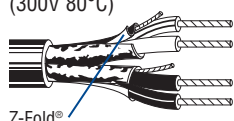
 <p>300V RMS</p> <p>Z-Fold®</p>	<b>88777</b>	NEC:	3	See	100	30.5	6.0	2.7	14.7Ω/M'	11.3Ω/M'	.234	5.94	50	69%	31	102	67	220	
		CMP		Chart 3	500†	152.4	19.0	8.6	48.2Ω/km	37.1Ω/km									
		CEC:		(Tech Info	1000†	304.8	42.0	19.1											
		CMP FT6		Section)															
	<b>88778</b>	NEC:	6	See	100	30.5	7.0	3.2	14.7Ω/M'	11.3Ω/M'	.309	7.85	50	69%	31	102	67	220	
CMP			Chart 3	500†	152.4	38.5	17.4	48.2Ω/km	37.1Ω/km										
CEC:			(Tech Info	1000†	304.8	75.0	34.1												
CMP FT6			Section)																

**Plenum • FEP Insulation • Red Fluorocopolymer Jacket**

 <p>300V RMS</p> <p>Z-Fold®</p>	<b>87777</b>	NEC:	3	See	500†	152.4	18.0	8.2	14.7Ω/M'	11.3Ω/M'	.234	5.94	50	69%	31	102	67	220	
		CMP		Chart 3	1000†	304.8	40.0	18.2	48.2Ω/km	37.1Ω/km									
		CEC:		(Tech Info															
		CMP FT6		Section)															
	<b>87778</b>	NEC:	6	See	500†	152.4	37.5	17.0	14.7Ω/M'	11.3Ω/M'	.309	7.85	50	69%	31	102	67	220	
CMP			Chart 3	1000†	304.8	73.0	33.2	48.2Ω/km	37.1Ω/km										
CEC:			(Tech Info																
CMP FT6			Section)																

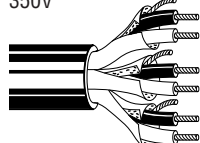
**20 AWG** Stranded (7x28) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil (100% Coverage) • 22 AWG Stranded TC Drain Wire

**Semi-rigid PVC Insulation • Overall Chrome PVC Jacket**

 <p>UL AWM Style 2464 (300V 80°C)</p> <p>Z-Fold®</p>	<b>9402</b>	NEC:	2	Red &	U-500	U-152.4	26.0	11.8	—	—	.300	7.62	—	—	55	180	95	312	
		CMG		Black,	1000	304.8	52.0	23.7											
		CEC:		Green &															
		CMG FT4		White															

**20 AWG** Stranded (10x30) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil (100% Coverage) • 22 AWG Stranded TC Drain Wire

**Polypropylene Insulation • Black High-density Polyethylene Jacket**

 <p>350V</p>	<b>9883</b>		3	See	500	152.4	28.5	12.9	6.4Ω/M'	11.2Ω/M'	.340	8.64	50	66%	30	98	55	180	
				Chart 3	1000	304.8	57.0	25.9	21.0Ω/km	36.8Ω/km									
				(Tech Info															
				Section)															
	<b>9886</b>		6	See	500	152.4	56.0	25.4	6.4Ω/M'	11.2Ω/M'	.455	11.56	50	66%	30	98	55	180	
			Chart 3	1000	304.8	108.0	49.0	21.0Ω/km	36.8Ω/km										
			(Tech Info																
			Section)																

DCR = DC Resistance • TC = Tinned Copper

\* Capacitance between conductors.

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

† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.