

### Description:

20 AWG pairs stranded (19x32) tinned copper conductors, twisted pairs, PVC insulation, unshielded, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
1	20	19x32	TC - Tinned Copper

#### Insulation

##### Insulation Material:

Insulation Material	Dia. (in.)
PVC - Polyvinyl Chloride	.068

#### Outer Shield

##### Outer Shield Material:

Outer Shield Material
Unshielded

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.037

Outer Jacket Ripcord: Yes

#### Overall Cabling

##### Overall Cabling Lay Length & Direction:

Direction
Left-hand Lay

Overall Nominal Diameter: 0.214 in.

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Black & Red

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +105°C

Bulk Cable Weight: 23 lbs/1000 ft.

Max. Recommended Pulling Tension: 31 lbs.

Min. Bend Radius (Install)/Minor Axis: 2 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: PLTC, ITC, CMG

CEC/C(UL) Specification: CMG

## 9408 Multi-Conductor - 300V Power-Limited Tray Cable

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

UL Flame Test:	UL1685 FT4 Loading
C(UL) Flame Test:	FT4
IEEE Flame Test:	1202
ICEA Flame Test:	T-29-520

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Burial:	Yes
Sunlight Resistance:	Yes

### Plenum/Non-Plenum

Plenum (Y/N):	No
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### Surface Printing (Overall)

Surface Printing:	LEGEND: BELDEN 9408 E34972 1PR20 (UL) CMG 105C OR PLTC OR ITC SUN RES OR AWM 2464 80C 300V OR C(UL) CMG----FT4 IEEE 1202 (2 FT, 7 DIGIT SEQUENTIAL NUMBER) FEET
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### Electrical Characteristics (Overall)

#### Nom. Inductance:

Inductance (µH/ft)

.19

#### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

55

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

30

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

9.5

#### Max. Operating Voltage - UL:

Voltage

300 V RMS (PLTC

CMG)

150 V RMS (ITC)

#### Max. Recommended Current:

Current

7.6 Amps per conductor @ 25°C

### Put Ups and Colors:

## 9408 Multi-Conductor - 300V Power-Limited Tray Cable

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9408 060U1000	1,000 FT	23.000 LB	CHROME		2 #20 PVC PVC
9408 060U500	500 FT	12.000 LB	CHROME		2 #20 PVC PVC

# UL Instrumentation Cable

## 300V Power-Limited Tray Cables

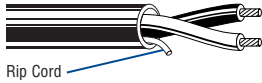
### Industrial Grade Sunlight- and Oil-Resistant Jackets

Description	Part No.	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Jacket Thickness		Nominal OD		Maximum Pull Tension		Minimum Bend Radius	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Lbs.	N	Inch	mm

**20 AWG Pairs** Stranded (19x32) Tinned Copper Conductors • Twisted Pairs

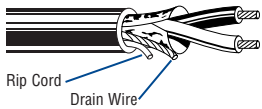
**Unshielded • PVC Insulation • Chrome PVC Jacket**

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	<b>9408</b>	1	E2	U-500 U-1000	U-152.4 U-304.8	12.0 23.0	5.5 10.4	.037	.94	.214	5.44	31	138	2.00	50.80
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**Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket**

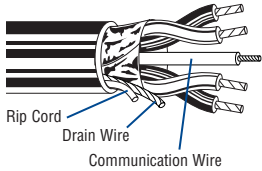
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	<b>9320</b>	1	E2	U-500 U-1000	U-152.4 U-304.8	14.5 28.0	6.6 12.7	.037	.94	.217	5.51	40	178	2.00	50.80
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**20 AWG Pairs** Stranded (7x28) Bare Copper Conductors • Twisted Pairs

**Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket** (See chart below for other options)

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	<b>1033A</b>	1	E1	1000 10000 †	304.8 3048.0	30.0 270.0	13.6 122.5	.037	.94	.213	5.41	42	187	2.25	57.15
	<b>3016A</b>	2	E1	Bulk ††	Bulk	—	—	.042	1.07	.332	8.43	92	409	3.75	95.25
	<b>1056A</b>	4	E1	10000 †	3048.0	820.0	372.0	.053	1.35	.408	10.36	135	601	4.25	107.95
	<b>1057A</b>	8	E1	10000 †	3048.0	1410.0	640.2	.053	1.35	.472	11.99	247	1099	5.00	127.00
	<b>1058A</b>	12	E1	7500 †	2286.0	1455.0	660.0	.053	1.35	.564	14.33	359	1597	6.00	152.40
	<b>1059A</b>	16	E1	5000 †	1524.0	1275.0	578.9	.064	1.63	.649	16.48	232	1032	6.50	165.10
	<b>1060A</b>	24	E1	5000 †	1524.0	1735.0	787.7	.064	1.63	.786	19.96	695	3092	8.25	209.55
	<b>1061A</b>	36	E1	2500 †	762.0	1300.0	590.2	.074	1.88	.960	24.38	1031	4587	10.00	254.00
	<b>1062A</b>	50	E1	2500 †	762.0	1825.0	827.8	.074	1.88	1.117	28.37	1423	6330	11.50	292.10



**Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Black PVC Jacket** (Other options below)

NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	<b>1075A</b>	2	E1	10000 †	3048.0	650.0	294.8	.042	1.07	.337	8.56	97	432	3.75	95.25
	<b>1076A</b>	4	E1	7500 †	2286.0	787.5	357.5	.053	1.35	.411	10.44	171	761	4.50	114.30
	<b>1077A</b>	8	E1	7500 †	2286.0	1297.5	588.6	.053	1.35	.514	13.06	320	1424	5.50	139.70
	<b>1078A</b>	12	E1	7500 †	2286.0	1942.5	881.1	.064	1.63	.637	16.18	468	2082	6.75	171.45
	<b>1079A</b>	16	E1	5000 †	1524.0	1555.0	705.4	.064	1.63	.704	17.88	617	2745	7.50	190.50
	<b>1091A</b>	20	E1	Bulk ††	Bulk	—	—	.064	1.63	.780	19.81	765	3403	8.25	209.55
	<b>1080A</b>	24	E1	2500 †	762.0	1142.5	518.2	.074	1.88	.863	21.92	914	4066	9.00	228.60
	<b>1081A</b>	36	E1	2000 †	609.6	1436.0	651.9	.074	1.88	1.035	26.29	1359	6046	10.50	266.70
	<b>1082A</b>	50	E1	2000 †	609.6	1858.0	843.5	.074	1.88	1.215	30.86	1878	8355	12.75	323.85

F-R = Flame-retardant

†Final put-up length may vary ±10% from length shown.

††Bulk = Check length available for specific construction.

E1, E2 = Refer to Technical Information section for color code.

Alternate color coding available upon request.

Multiple pair or triad cables have each pair/triad numbered for ease of identification.

**Conductor, Insulation and Jacket Options\*\***

To Specify:		
<b>1234</b>	<b>A</b>	<b>E</b>
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired

Bare	Tinned	Insulation/Jacket
<b>A</b>	<b>B</b>	PVC/PVC
<b>C</b>	<b>D</b>	XLPE/PVC
<b>K</b>	<b>L</b>	TPE/TPE
<b>Q</b>	<b>R</b>	XLPE/CPE
<b>S</b>	<b>T</b>	XLPE/Haloarrest®

\*\*For 1000 and 3000 Series cables only.