

## Description:

22 AWG triads stranded (7x30) tinned copper conductors, twisted triads, PVC insulation, unshielded, PVC jacket.

## Physical Characteristics (Overall)

### Conductor

**AWG:**

# Triads	AWG	Stranding	Conductor Material
1	22	7x30	TC - Tinned Copper

### Insulation

**Insulation Material:**

Insulation Material	Dia. (in.)
PVC - Polyvinyl Chloride	.062

### Outer Shield

**Outer Shield Material:**

Outer Shield Material
Unshielded

### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

**Outer Jacket Ripcord:** Yes

### Overall Cabling

**Overall Cabling Color Code Chart:**

Number	Color
1	Black & White & Red

**Overall Nominal Diameter:** 0.208 in.

## Mechanical Characteristics (Overall)

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

**UL Temperature Rating:** 105°C

**Max. Recommended Pulling Tension:** 29 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

**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

## 9491 Triad - 300V Power-Limited Tray Cable

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 9491 E34972 1TRD22 (UL) CMG 105C OR PLTC OR ITC SUN RES DIR BUR 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)
.21

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
26

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
15

#### Max. Operating Voltage - UL:

Voltage
300 V RMS

#### Max. Recommended Current:

Current
3.8 Amps per conductor @ 25°C

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9491 060U1000	1,000 FT	23.000 LB	CHROME		3 #22 PVC PVC
9491 060U500	500 FT	12.500 LB	CHROME		3 #22 PVC PVC

# UL Instrumentation Cable

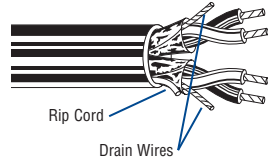
## 300V Power-Limited Tray Cables

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

Description	Part No.	No. of Pairs/Triads	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

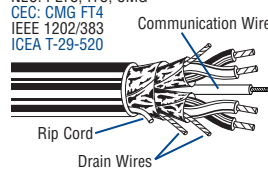
**22 AWG Pairs Stranded (7x30) Tinned Copper Conductors • Twisted Pairs**

Individually Shielded • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9328	2	E2	500	152.4	23.5	10.2	.042	1.07	.323	8.20	54	240	3.00	76.20
				1000	304.8	46.0	20.9								
	9329	3	E2	500	152.4	29.5	13.4	.042	1.07	.341	8.66	54	240	3.50	88.90
				1000	304.8	60.0	27.3								
	9330	4	E2	500	152.4	39.0	17.7	.042	1.07	.372	9.45	110	489	3.50	88.90
				1000	304.8	75.0	34.0								
	9331	6	E2	500	152.4	55.0	24.5	.053	1.35	.457	11.61	101	449	4.33	109.98
				1000	304.8	111.0	50.4								
	9332	9	E2	500	152.4	75.0	34.1	.053	1.35	.530	13.46	160	711	5.00	127.00
				1000	304.8	145.0	65.9								
	9333	11	E2	500	152.4	89.0	40.5	.053	1.35	.592	15.04	160	711	5.50	139.70
				1000	304.8	177.0	80.5								
	9335	19	E2	500	152.4	141.5	64.3	.063	1.60	.711	18.06	264	1174	6.50	165.10
				1000	304.8	287.0	130.5								



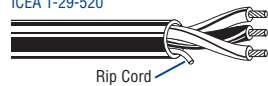
**22 AWG Pairs Stranded (7x30) Bare Copper Conductors\* • Twisted Pairs**

Individually Shielded + Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • PVC Jacket (Black or Chrome)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	3001A <sup>†</sup>	2	E1	Bulk <sup>††</sup>	Bulk	—	—	.042	1.07	.324	8.23	54	240	3.25	82.55
	3005A <sup>†</sup>	4	E1	Bulk <sup>††</sup>	Bulk	—	—	.043	1.09	.360	9.14	115	511	3.50	88.90
	3007A <sup>†</sup>	8	E1	Bulk <sup>††</sup>	Bulk	—	—	.053	1.35	.497	12.62	250	1112	5.25	133.35
	3009A <sup>†</sup>	12	E1	Bulk <sup>††</sup>	Bulk	—	—	.053	1.35	.570	14.48	300	1334	5.75	146.05
	3011A <sup>†</sup>	16	E1	Bulk <sup>††</sup>	Bulk	—	—	.064	1.63	.674	17.12	350	1557	6.25	158.75
	3013A <sup>†</sup>	24	E1	Bulk <sup>††</sup>	Bulk	—	—	.065	1.65	.800	20.32	540	2402	8.00	203.20
	3015A <sup>†</sup>	50	E1	Bulk <sup>††</sup>	Bulk	—	—	.075	1.91	1.050	26.67	1330	5916	10.50	266.70

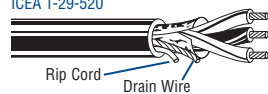


**22 AWG Triads Stranded (7x30) Tinned Copper Conductors • Twisted Triads**

Unshielded • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9491	1	E1	U-500	U-152.4	12.5	5.7	.037	.94	.208	5.28	29	129	2.00	50.80
				U-1000	U-304.8	23.0	10.4								

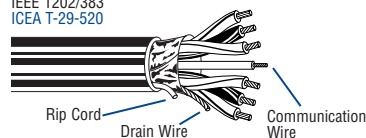


Overall Beldfoil Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	9363	1	E1	U-500	U-152.4	13.5	6.1	.037	.94	.208	5.28	29	129	2.00	50.80
				U-1000	U-304.8	26.0	11.8								



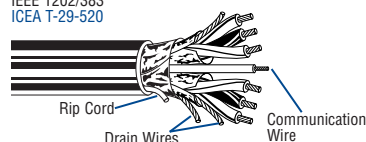
**22 AWG Triads Stranded (7x30) Bare Copper Conductors\* • Twisted Triads**

Overall Beldfoil Shield (100% Coverage) • PVC Insulation • PVC Jacket (Black or Chrome)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	3002A	2	E1	Bulk <sup>††</sup>	Bulk	—	—	.043	1.09	.330	8.38	62	275	3.50	88.90



For Exposed Run rated cable, order 3002AE

Individually Shielded + Overall Beldfoil Shield (100% Coverage) • PVC Insulation • PVC Jacket (Black or Chrome)															
NEC: PLTC, ITC, CMG CEC: CMG FT4 IEEE 1202/383 ICEA T-29-520	3003A	2	E1	Bulk <sup>††</sup>	Bulk	—	—	.043	1.09	.330	8.38	82	364	3.25	82.55



For Exposed Run rated cable, order 3003AE

\*For tinned copper conductors, order with B suffix.

†For Exposed Run rated 3000 series cables, order with "E" suffix, e.g. 3001AE.

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.

††Bulk = Check length available for specific construction.