

Description:

12 AWG pairs stranded (65x30) tinned copper conductors, twisted pairs, PVC insulation, unshielded, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
1	12	65x30	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
PVC - Polyvinyl Chloride	.143

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.042

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Nominal Diameter: 0.370 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: 44 lbs/1000 ft.

Max. Recommended Pulling Tension: 197 lbs.

Min. Bend Radius (Install)/Minor Axis: 3.750 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: PLTC, ITC, CL3R

IEEE Specification: 1202

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

9412 Multi-Conductor - 300V Power-Limited Tray Cable

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

Suitability

Sunlight Resistance:	Yes
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Plenum/Non-Plenum

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

Surface Printing:	BELDEN 9412 E34972 1PR12 (UL) CL3R 105C OR PLTC OR ITC SUN RES OR AWM 2464 80C 300V- - - FT4 (2 FT, 7 DIGIT SEQUENTIAL NUMBER) FEET
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Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (µH/ft)
.18

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
25

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.8

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Operating Voltage - Other:

Voltage	Description
25 KV RMS	Nominal breakdown voltage between conductors

Max. Recommended Current:

Current
17 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9412 0601000	1,000 FT	83.000 LB	CHROME	C	2 #12 PVC PVC
9412 060500	500 FT	41.500 LB	CHROME	C	2 #12 PVC PVC

Notes:

C = CRATE REEL PUT-UP.

UL Instrumentation Cable

300V Power-Limited Tray Cables

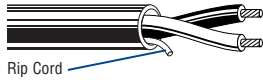
Industrial Grade Sunlight- and Oil-Resistant Jackets

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

12 AWG Pairs Stranded (65x30) Tinned Copper Conductors • Twisted Pairs

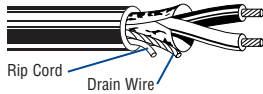
Unshielded • PVC Insulation • Chrome PVC Jacket

NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520	9412	1	E2	500	152.4	41.5	18.8	.042	1.07	.370	9.40	197	876	4.25	107.95
				1000	304.8	83.0	37.7								



Overall Beldfoil® Shield (100% Coverage) • PVC Insulation • Chrome PVC Jacket

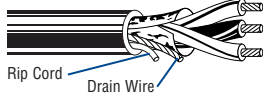
NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520	9312	1	E2	500	152.4	49.0	22.3	.042	1.07	.373	9.47	225	1001	4.25	107.95
				1000	304.8	96.0	43.6								



12 AWG Triads Stranded (7x20) Bare Copper Conductors • Twisted Triads

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

NEC: PLTC, ITC, CL3R CEC: FT4 IEEE 1202/383 ICEA T-29-520	3102A	1	E1	Bulk †	Bulk	—	—	.053	1.35	.432	11.00	315	1401	3.50	88.90
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E1, E2 = Refer to Technical Information section for color code.
Alternate color coding available upon request.

†Bulk = Check length available for specific construction.

Conductor, Insulation and Jacket Options**

To Specify:			Bare	Tinned	Insulation/Jacket
1234	A	E	A	B	PVC/PVC
Start with Part No.	Add or replace letter code for desired conductor, insulation & jacket	Add for Exposed Run rating if desired			
			C	D	XLPE/PVC
			K	L	TPE/TPE
			Q	R	XLPE/CPE
			S	T	XLPE/Haloarrest®

**For 1000 and 3000 Series cables only.