



**Product:** [9412](#)

High Perform Instr, 1 Pr #12 Str TC, PVC Ins E2, PVC Jkt, PLTC-ER

[Request Sample](#)

**Product Description**

High Performance Instrumentation, 1 Pair 12AWG (65x30) Tinned Copper, PVC Insulation E2 Color Code, PVC Outer Jacket, PLTC-ER

**Technical Specifications**

**Product Overview**

Suitable Applications:	Instrumentation, Sensors, Valves, Positioners, 4-20mA, 0-10V
------------------------	--

**Construction Details**

**Conductor**

Element	Number of Element	Size	Stranding	Material
Pair(s)	1	12 AWG	65x30	TC - Tinned Copper

**Insulation**

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.025 in (0.64 mm)	0.143 in (3.63 mm)	Black & Red

**Outer Jacket**

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.042 in (1.1 mm)	0.370 in (9.40 mm)	Yes

Overall Cable Diameter (Nominal):	0.370 in (9.40 mm)
-----------------------------------	--------------------

**Electrical Characteristics**

**Electricals**

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Max. Current
Pair(s)	1.78 Ohm/1000ft	25 pF/ft (82 pF/m)	10.3 Amps per Conductor at 25°C

**Voltage**

<b>UL Voltage Rating</b>
300 V (PLTC)

**Mechanical Characteristics**

**Temperature**

UL Temperature	Operating
105°C	-30°C to +105°C

Table Notes:	AWM 80°C
--------------	----------

**Bend Radius**

Stationary Min.	Installation Min.
3.7 in (94 mm)	3.7 in (94 mm)

Max. Pull Tension:	169 lbs (76.7 kg)
Bulk Cable Weight:	77 lbs/1000ft

**Standards and Compliance**

Environmental Suitability:	Indoor/Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL 1685 UL Loading, T-29-520, IEEE 1202, FT4
NEC / UL Compliance:	Article 725, Article 727, CL3R, ITC-ER, PLTC-ER
AWM Compliance:	AWM 2464
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## History

Update and Revision:	Revision Number: 0.496 Revision Date: 06-30-2022
----------------------	--

## Part Numbers

### Variants

Item #	Color	UPC
9412 0601000	Chrome	612825240297
9412 0602500	Chrome	612825240303
9412 060500	Chrome	612825240310

© 2022 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.