

**Product:** [70105PU](#) 

Profibus DP, 1PR #24 Str BC, PO ins, F/B/F, PUR jkt, IEC 61158-2, Trailing



## Product Description

Profibus DP, 1 Pair AWG 24 Bare Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil + Braid + Foil (Tri) shielding, PUR jacket , IEC 61158-2, Trailing

## Technical Specifications

### Product Overview

Suitable Applications:	Instrumentation and computer cable for Data Transmission applications such as Profibus; Suitable for C-track/trailing application
------------------------	---

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Pairs
24	19x36	BC - Bare Copper	1

Conductor Count:	2
Total Number of Pairs:	1

#### Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
PE - Polyethylene (Foam)	2.5 mm	0.1 mm

#### Color Chart

Number	Color
Wire 1	Red
Wire 2	Green

#### Outer Shield Material

Type	Layer	Material	Coverage [%]
Tape	1	Bi-Laminate (Alum+Poly)	70%
Braid	2	Tinned Copper (TC)	70%
Tape	3	Bi-Laminate (Alum+Poly)	

#### Outer Jacket Material

Material	Nominal Diameter
PUR - Polyurethane	7.8 mm

### Construction and Dimensions

#### Cabling

Description
1 pair and 2 fillers twisted to cable core wrapped with a non-woven foil

### Electrical Characteristics

#### Conductor DCR

Max. Conductor DCR
87 Ohm/km

## Capacitance

### Nom. Capacitance Conductor to Conductor

30 pF/m

## Impedance

Frequency [MHz]	Nominal Characteristic Impedance	Nominal Characteristic Tolerance
3-20 MHz	150 Ohm	15 Ohm

## Temperature Range

Installation Temp Range:	-15°C To +80°C
Storage Temp Range:	-40°C To +80°C
Operating Temp Range (Fixed Install):	-40°C To +80°C

## Mechanical Characteristics

Min Bend Radius (W/o Pulling Strength):	78 mm
Min Setting Radius:	39 mm

## Standards

UL AWM Style Compliance:	AWM 21292
--------------------------	-----------

## Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
EU RoHS Compliance Date (yyyy-mm-dd):	2014-07-23

## Flammability, LSOH, Toxicity Testing

UL Flammability:	UL horizontal flame test
IEC Flammability:	IEC 60332-2-2
IEC 60754-1 (EN50267-1)- Halogen Amount:	zero

## Part Number

### Variants

Item #	Color	Putup Type	Length	EAN
70105PU.00500	Purple	Reel	500 m	8719605012272
70105PU.01500	Purple	Reel	500 m	8719605012296
70105PU.001000	Purple	Reel	1,000 m	8719605012265
70105PU.011000	Purple	Reel	1,000 m	8719605012289

## History

Update and Revision:	Revision Number: 0.125 Revision Date: 09-30-2020
----------------------	--

© 2020 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.