

## 82842 Multi-Conductor - Low Capacitance Computer and Computer P.O.S. Cable



For more Information  
please call

1-800-Belden1

**General Description:**

Low cap 24 AWG stranded (7x32) TC conductors, plenum, foam FEP insulation, twisted pairs, overall Beldfoil (100% coverage) + TC braid shield (90% coverage), 24 AWG stranded TC drain wire, Flamarrest® jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material
2	24	7x32	TC - Tinned Copper

Total Number of Conductors: 4

**Insulation****Insulation Material:**

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Teflon®	FFEP - Foam Fluorinated Ethylene Propylene	0.483

**Outer Shield****Outer Shield Material:**

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	90

**Outer Shield Drain Wire AWG:**

AWG	Stranding	Drain Wire Conductor Material
22	7x32	TC - Tinned Copper

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (mm)
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	0.381

**Overall Cable**

Overall Nominal Diameter: 6.934 mm

**Pair****Pair Color Code Chart:**

Number	Color
1	White/Blue & Blue/White
2	White/Orange & Orange/White

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +75°C
Bulk Cable Weight:	56.552 Kg/Km
Max. Recommended Pulling Tension:	252.213 N
Min. Bend Radius/Minor Axis:	69.850 mm

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

## 82842 Multi-Conductor - Low Capacitance Computer and Computer P.O.S. Cable

NEC/(UL) Specification:	CMP
-------------------------	-----

CEC/C(UL) Specification:	CMP
--------------------------	-----

EU Directive 2011/65/EU (ROHS II):	Yes
------------------------------------	-----

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):	10/01/2005
---------------------------------------	------------

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:	NFPA 262
----------------	----------

CSA Flame Test:	FT6
-----------------	-----

**Plenum/Non-Plenum**

Plenum (Y/N):	Yes
---------------	-----

Non-Plenum Number:	9842
--------------------	------

**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)
-----------------

120
-----

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/m)
--------------------

39.372
--------

**Nom. Capacitance Cond. to Other Conductor & Shield:**

Capacitance (pF/m)
--------------------

72.182
--------

**Nominal Velocity of Propagation:**

VP (%)
--------

76
----

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)
---------------------

78.744
--------

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)
---------------------

7.8744
--------

**Max. Operating Voltage - UL:**

Voltage
---------

300 V RMS
-----------

**Max. Recommended Current:**

Current
---------

3.2 Amps per conductor @ 25°C
-------------------------------

**Notes (Overall)**

**Notes:** Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
--------	-------	-------------	-------	-------	-----------

## METRIC MEASUREMENT VERSION

## 82842 Multi-Conductor - Low Capacitance Computer and Computer P.O.S. Cable

82842 0081000	1,000 FT	41.000 LB	GRAY		2 PR #24 FFEP SH FLRST
82842 8771000	1,000 FT	42.000 LB	NATURAL	C	2 PR #24 FFEP SH FLRST
82842 877500	500 FT	21.000 LB	NATURAL	C	2 PR #24 FFEP SH FLRST
82842 8775000	5,000 FT	210.000 LB	NATURAL		2 PR #24 FFEP SH FLRST

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 2    Revision Date: 08-15-2012

© 2019 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 herein 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 "AS IS" 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 EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure 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. This 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.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).