



Part Number: 3079ALS

IDS SWA

Product Description

AWG22 solid bare copper

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Eca
Suitable Applications:	Instrumentation and computer cable; For data transmission applications such as Profibus DP

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
22	Solid	BC - Bare Copper	1

Conductor Count:	2
Total Number of Pairs:	1
Conductor Size:	22 AWG

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
FPE - Foamed Polyethylene	2.51 mm	0.09 mm

Color Chart

Number	Color
Pair 1	Red & Green

Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]
Tape	Aluminum / Polyester	Z-fold®	
Braid	Tinned copper		65 %

Inner Jacket Material

Material	Color	Nominal Diameter	Nominal Wall Thickness
FRNC / LSZH	Chrome (RAL 7037)	8 mm	1.1 mm

Outer Jacket Material

Material	Color	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC (UV stabilised)	Black or Purple	12.4 mm	1.3 mm

Construction and Dimensions

Cabling

Description	Filler
1 pair and 2 fillers twisted to cable core	Flame retardant Polypropylene (2x) (2.54 mm)

Armor

Type of Armor	Material	Thickness of Armoring Wires	Coverage Percentage
---------------	----------	-----------------------------	---------------------

Steel Wire Armoring	Galvanized steel wire	0.9 mm	Min. 95 %
---------------------	-----------------------	--------	-----------

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
52 Ohm/km

Capacitance

Max. Capacitance Unbalance	Nom. Capacitance Conductor to Conductor
1 pF/m	27.9 pF/m

Impedance

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

Delay

Nominal Velocity of Propagation (VP) [%]
78 %

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
0.2 MHz	0.9 dB/100m
4 MHz	2.2 dB/100m
16 MHz	4.5 dB/100m

Voltage

Voltage Rating [V]
300 V

Temperature Range

Installation Temp Range:	-15°C To +80°C
Storage Temp Range:	-45°C To +80°C
Operating Temp Range (Flexible Install):	-15°C To +80°C
Operating Temp Range (Fixed Install):	-45°C To +80°C

Mechanical Characteristics

Oil Resistance:	IEC 60811-404
Min Bend Radius During Installation:	186 mm

Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50290-2-27

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01
---------------------------------------	------------

Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-3-24
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

Part Number

Variants

Item #	Color
3079ALS.001000	Black
3079ALS.00152	Black
3079ALS.00305	Black
3079ALS.00310	Black
3079ALS.00385	Black
3079ALS.00400	Black
3079ALS.00410	Black

3079ALS.00500	Black
3079ALS.00510	Black
3079ALS.011000	Violet
3079ALS.021000	Violet
3079ALS.02500	Violet

History

Revision Number:	8
------------------	---

© 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 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.