



**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

Filler
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

Shielding: Foil + Braid(s)

### 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
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## Flammability, LSOH, 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
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