



**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

**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	Beldfoil®	
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	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC (UV stabilised)	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
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## Flammability, LSOH, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

## Part Number

### Variants

Item #	Color	Length
3079ALS.001000	Black	1,000 m
3079ALS.00152	Black	152 m
3079ALS.00305	Black	305 m
3079ALS.00310	Black	310 m
3079ALS.00385	Black	385 m
3079ALS.00400	Black	400 m
3079ALS.00410	Black	410 m
3079ALS.00500	Black	500 m
3079ALS.00510	Black	510 m

3079ALS.K01000	Black	1,000 m
3079ALS.011000	Violet	1,000 m
3079ALS.021000	Violet	1,000 m
3079ALS.02500	Violet	500 m
3079ALS.02305	Violet	305 m

## History

Update and Revision:	Revision Number: 0.162 Revision Date: 09-02-2019
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