

**NETWORK CABLE SERIES 155421-1xxx**  
**ProfiBUS DP 150Ω - 2x22AWG - shield**  
**WSOR jacket (“Weld-Slag and Oil-Resistant”)**  
**cULus Style 21215 (80°C / 600V)**

**1. CONSTRUCTION DATA**

**1.1 CONDUCTOR:**

Bare copper strand; according to EN 13602 - ETP1; stranding according to DIN VDE 0295, EN60228 Class 6  
Stranded lay compliant with UL 758.

**1.2 WIRE STRUCTURE:**

Nominal section (mm <sup>2</sup> )	AWG	Stranding (nbr of wires x wire diameter in mm)	Diameter of stranded core (mm)	Max Resistance Ref. std. IEC 60344 (Ω/km)
0.34	22	19x0.15	0.75	60.0

**1.3 INSULATION:**

Foam PE; Max Insulation resistance >200 MΩxkm (IEC60189-1&IEC60885-1 or EN50289-1-4); according to UL758,  
cores colors refer to Annex #1

**1.4 INSULATION DIAMETER**

Nominal section (mm <sup>2</sup> )	Nominal Ø (mm)	Nominal thickness (mm)
0.34	2.75	1.00

**1.5 ASSEMBLY:**

Cores stranded together, with two fillers between cores

**1.6 TAPE SHIELD:**

Aluminum/PET tape (Al face outside), nominal optical coverage 100%.

**1.7 BRAID SHIELD:**

Tin copper wire, nominal optical coverage 80%.

**1.8 TAPE:**

Over braid shield

**1.9 JACKET:**

Special compound Polyurethane based, nominal hardness 78 Shore A; Silicone, Pb,Cd,Hg & FCKW free; according to  
UL758.

For overall diameter, jacket color refer to Annex #1.

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## 2. TECHNICAL DATA

### 2.1 ELECTRICAL:

Voltage rating	600 Vrms
Voltage test on core	1500 Vrms x 1 min. (EN50395)

### 2.2 TEMPERATURE:

Temperature range (fixed)	-40°C to +80°C
Temperature range (flex)	-10°C to +60°C (free motion without periodic recurrence and forced guidance)

### 2.3 CHEMICAL:

Oil resistance	UL758/UL2556 (4 days @ 100°C – IRM902 oil)
Free of FCKW, Silicone and Pb	yes
Halogen free	no

### 2.4 PHYSICAL:

UV resistant	yes (UL1581/2556– 300h)
Max installation pulling force	100N
Bending radius (fixed)	>10xOD
Bending radius (flex)	>15xOD
Drag chain use (@ 20°C)	>15xOD (up to 2Mio @ 20°C in a freely suspended chain)*

\*Default criterium of the norm-bendings is electrical failure due to conductor breakage or conductor short-circuit. Extreme sheath adhesion is not a default criterium since it cannot be influenced by the cable manufacturer (e.g. through big abrasion between cable and chain, non-suitable chain construction or wrong installation of cable in the chain).

### 2.5 FLAME:

UL Vertical Flame Test	pass
UL VW-1, CSA FT-1	pass
IEC 60332-1	pass
IEC 60332-2	pass

## 3. COMPLIANCE

Accordance to:	<ul style="list-style-type: none"> <li>2006/95/CE; 2004/108/CE; 2011/65/CE (RoHS)</li> <li>Weld Slag resistant: yes, S-300 Molex test</li> <li>UL/CSA (UL AWM Style 21215, use: External interconnect or internal wiring of electronic equipment)</li> </ul>
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## 4. PRINTING & PACKAGE

Printing text	Ink-jet type; conform to UL758
Package	available in different packaging sizes ( <i>refer to Annex #1</i> )

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**ANNEX 1**

mm <sup>2</sup>	AWG	Number of conductors	Outer Diameter (mm)	Jacket color	Packaging size	Packaging composition	Standard order number	Sketch
0.34	22	2	8,20	Violet	S	1x200m	1554211004	 <p>Red-Green</p>
				Violet	M	1x500m	1554211005	
				Violet	L	1x1000m	1554211006	

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