

**CABLE SERIES 155230-9xxx (Unshielded)**  
**Distribution Box - UL AWM recognized - PUR jacket**  
**cUL<sub>US</sub> Style 21223 (80°C / 1000V)**

**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	42x0.10	0.80	65.3
0.75	19	42x0.15	1.20	27.7

**1.3 INSULATION:**

Thermoplastic Elastomer compound; Max Insulation resistance >600 MΩxkm (IEC60189-1&IEC60885-1 or EN50289-1-4);  
nominal hardness 50 Shore D; according to UL758

**1.4 INSULATION DIAMETER**

Nominal Section (mm <sup>2</sup> )	Nominal Ø (mm)	Nominal thickness (mm)
0.34	1.3	0.25
0.75	1.8	0.30

**1.5 ASSEMBLY:**

Cores stranded together in one or two layers (depending on the number of cores), where if necessary one or more fillers  
can be used for a better roundness.

**1.6 JACKET:**

Polyurethane (PUR, TPU), ether base, Halogen free, nominal hardness 90 Shore A; Silicone, Pb,Cd,Hg & FCKW free;  
according to UL758.

For overall diameter, jacket and cores colors refer to Annex #1

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## 2. TECHNICAL DATA

### 2.1 ELECTRICAL:

Voltage rating	1000 Vrms
Voltage test on core (thick. <0.4mm)	3000 Vrms x 1 min. (IEC60885-1)
Voltage test on core (thick. ≥0.4mm)	3500 Vrms x 1 min. (IEC60885-1)

### 2.2 TEMPERATURE:

Temperature range (fixed)	-50 °C to +90°C (10'000h ISO6722 pending)
Temperature range (flex)	-40°C to +80°C (free motion without periodic recurrence and forced guidance)
Temperature range (drag chain)	-35°C to +60°C

### 2.3 CHEMICAL:

Oil resistance	UL758/UL2556/EN50363-10-2 (7 days @ 100°C - IRM902 oil)
Free of FCKW, Silicone and Pb	yes
Halogen free	yes (IEC60754-1 EN50267-2-1 VDE0472-815)

### 2.4 PHYSICAL:

UV resistant	yes (UL1581/2556– 300h)
Max installation pulling force	50N
Bending radius (fixed)	>5xOD
Bending radius (flex and drag chain)	>10xOD (5Mio @ 20°C in a freely suspended chain)*
Torsion @ 20°C	Up to ±180°/m ( ±30°/m shielded cable)*

\*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

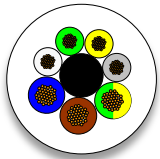
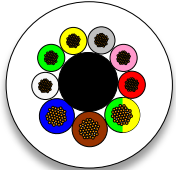
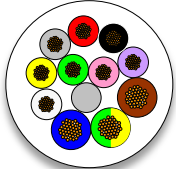
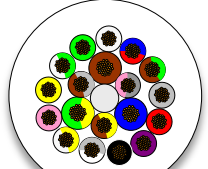
Accordance to:	<ul style="list-style-type: none"> <li>▪ 2006/95/CE; 2004/108/CE; 2011/65/CE (RoHS)</li> <li>▪ UL/CSA (UL AWM Style 21223, use: External interconnect of electronic equipment)</li> <li>▪ NFPA79-2012 circumstances mentioned in Chapter 12</li> </ul>
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## 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 cond.	Outer Ø (mm)	Jacket color	Packaging size	Packaging composition	Standard order number	Sketch*
3x0,75 + 4x0,34	3xAWG19 + 4xAWG22	7 (3+4)	7,8	Black	S	3x100m	1552309001	 White-Green-Yellow-Grey Yellow/Green-Brown-Blue
				Black	M	1x500m	1552309002	
				Black	L	1x1000m	1552309003	
				Grey	S	3x100m	1552309004	
				Grey	M	1x500m	1552309005	
				Grey	L	1x1000m	1552309006	
3x0.75 + 6x0.34	3xAWG19 + 6xAWG22	9 (3+6)	8,5	Black	S	1x200m	1552309007	 White-Green-Yellow-Grey-Pink-Red Yellow/Green-Brown-Blue
				Black	M	1x500m	1552309008	
				Black	L	1x1000m	1552309009	
				Grey	S	1x200m	1552309010	
				Grey	M	1x500m	1552309011	
				Grey	L	1x1000m	1552309012	
3x0.75 + 8x0.34	3xAWG19 + 8xAWG22	11 (3+8)	8,5	Black	S	1x200m	1552309013	 White-Yellow-Grey-Red-Black-Violet-Brown Yellow/Green-Blue-Green-Pink
				Black	M	1x500m	1552309014	
				Black	L	1x1000m	1552309015	
				Grey	S	1x200m	1552309016	
				Grey	M	1x500m	1552309017	
				Grey	L	1x1000m	1552309018	
3x0.75 + 16x0.34	3xAWG19 + 16xAWG22	19 (3+16)	10,2	Black	S	1x100m	1552309019	 Black-Grey/White-Yellow/White-Pink-Yellow- Green/White Green-White-Blue/Red-Brown/Green- Grey-Red-Violet-Blue Yellow/Brown-Yellow/Green-Grey/Brown-Brown-Grey/Pink
				Black	M	1x500m	1552309020	
				Black	L	1x1000m	1552309021	
				Grey	S	1x100m	1552309022	
				Grey	M	1x500m	1552309023	
				Grey	L	1x1000m	1552309024	

\*Colour Sequence  
for packaging size L: colors clockwise exit drum (as in sketch)  
for packaging size S and M; colors counterclockwise

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