NETWORK CABLE SERIES 155431-1xxx
ProfiBUS DP 150Ω - 2x22AWG - shield - PUR jacket
c UL us Style 20233 (80°C / 300V)

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 (mm²)	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 (mm²)	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:
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 color refer to Annex #1.

2. TECHNICAL DATA

2.1 ELECTRICAL:

Voltage rating	300 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)	-20°C to +60°C (free motion without periodic recurrence and forced guidance)

2.3 CHEMICAL:

Oil resistance	UL758/UL2556/EN50363-10-2 (7days @ 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	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

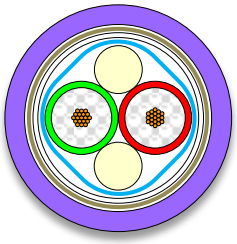
Accordance to:

- 2006/95/CE; 2004/108/CE; 2011/65/CE (RoHS)
- UL/CSA (UL AWM Style 20233, use: external interconnect of electronic equipment)

4. PRINTING & PACKAGE

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

ANNEX 1

mm^2	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	1554311004	 Red-Green
				Violet	M	1x500m	1554311005	
				Violet	L	1x1000m	1554311006	

