

**NETWORK CABLE SERIES 155411-6xxx**  
**EtherNET Cat5e (2 or 4 pairs) shield - PVC jacket**  
**cUL<sup>us</sup> Style 2464 (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 (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)
0.14	26	19x0.10	0.50	145.8
0.22	24	19x0.12	0.60	97.5

**1.3 INSULATION:**

Thermoplastic PE; Max Insulation resistance >200 MΩxkm (IEC60189-1&IEC60885-1 or EN50289-1-4); nominal hardness 61 Shore D; 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)
0.14	1.00	0.26
0.22	1.15	0.28

**1.5 ASSEMBLY IN PAIRS:**

Cores twisted in pairs (2 or 4) with different lay.

**1.6 ASSEMBLY:**

Pairs stranded together

**1.7 TAPE:**

Wrap over assembly.

**1.8 TAPE SHIELD:**

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

**1.9 BRAID SHIELD:**

Tin copper wire, nominal optical coverage 80%.

**1.10 JACKET:**

PVC compound, nominal hardness 88 Shore A; Silicone, Pb,Cd,Hg & FCKW free; according to UL758.  
For overall diameter, jacket colour refer to Annex #1.

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## 2. TECHNICAL DATA

### 2.1 ELECTRICAL:

Voltage rating	300 Vrms
Voltage test on core	2000 Vrms x 1 min. (EN50395)

### 2.2 TEMPERATURE:

Temperature range (fixed)	-20°C to +80°C
Temperature range (flex)	+5°C to +60°C (free motion without periodic recurrence and forced guidance)

### 2.3 CHEMICAL:

Oil resistance	---
Free of FCKW, Silicone and Pb	yes
Halogen free	no

### 2.4 PHYSICAL:

UV resistant	yes (UL1581/2556– 300h)
Max installation pulling force	50N
Bending radius (fixed)	>10xOD
Bending radius (flex)	>15xOD
Drag chain use	---
Torsion	---

### 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>▪ EtherNET cabling and interconnection technology</li> <li>▪ Cat.5e flex patch cord</li> <li>▪ UL/CSA (UL AWM Style 2464, use: internal wiring or external interconnection 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*
0,14	26	2X2	6,5	Teal	S	3x100m	1554116001	<p>2x2</p>  <p>(Green-White/Green) (Orange-White/Orange)</p> <p>4x2</p>  <p>(Green-White/Green)-(Brown-White/Brown) (Blue-White/Blue)-(Orange-White/Orange)</p>
				Teal	M	1x500m	1554116002	
				Teal	L	1x1000m	1554116003	
		4x2	7,2	Teal	S	3x100m	1554116004	
				Teal	M	1x500m	1554116005	
				Teal	L	1x1000m	1554116006	
0,22	24	2X2	7,0	Teal	S	3x100m	1554116007	
				Teal	M	1x500m	1554116008	
				Teal	L	1x1000m	1554116009	
		4x2	7,8	Teal	S	3x100m	1554116010	
				Teal	M	1x500m	1554116011	
				Teal	L	1x1000m	1554116012	

\*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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