

NETWORK CABLE SERIES 155411-6xxx
EtherNET Cat5e (2 or 4 pairs) shield - PVC jacket
cUL^{us} 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 ²)	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 ²)	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.

REVISION HISTORY Rev.A 04/11/2015 RELEASED	ECR/ECN INFORMATION:	TITLE: EtherNET Cat5e – PVC jacket	Page 1 of 3
Document Number: 1554116001 PS P1E A	Created/Revised by: M. Arrigoni	Checked by: A. Defendi	Approved by: C. Lerosé
THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION Template: TDS REV.0 22/07/2015			

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:

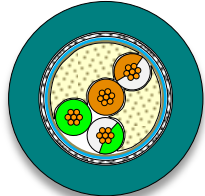
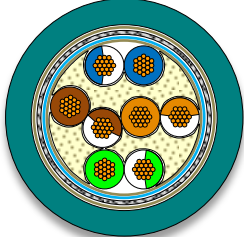
- 2006/95/CE; 2004/108/CE; 2011/65/CE (RoHS)
- EtherNET cabling and interconnection technology
- Cat.5e flex patch cord
- UL/CSA (UL AWM Style 2464, use: internal wiring or external interconnection of electronic equipment)

4. PRINTING & PACKAGE

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

REVISION HISTORY Rev.A 04/11/2015 RELEASED	ECR/ECN INFORMATION:	TITLE: EtherNET Cat5e – PVC jacket	Page 2 of 3
Document Number: 1554116001 PS P1E A	Created/Revised by: M. Arrigoni	Checked by: A. Defendi	Approved by: C. Lerose
THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION Template: TDS REV.0 22/07/2015			

ANNEX 1

mm ²	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

REVISION HISTORY

Rev.A 04/11/2015 RELEASED

ECR/ECN INFORMATION:

TITLE:

EtherNET Cat5e – PVC jacket

Page

3 of 3

Document Number:

1554116001 PS P1E A

Created/Revised by:

M. Arrigoni

Checked by:

A. Defendi

Approved by:

C. Lerose