

## OVERVIEW

Zemecs T111Z series Category 5e U/UTP LSOH Solid LAN cables are designed and manufactured to exceed performances specified by ANSI/TIA/EIA-568-B.2-1, EN 50173, ISO/IEC 11801, IEC 61156-5 and EN 50288-6-1 standards up to 100Mhz. Four twisted pairs of 24 AWG solid copper conductors jacketed with a ripcord. Products with LSOH jacket are delivered in packages of 500 and 1.000 m. reels.

CPR compliant Zemecs T111Z LAN cables support network speeds up to 1 Gigabit/s.

## FEATURES

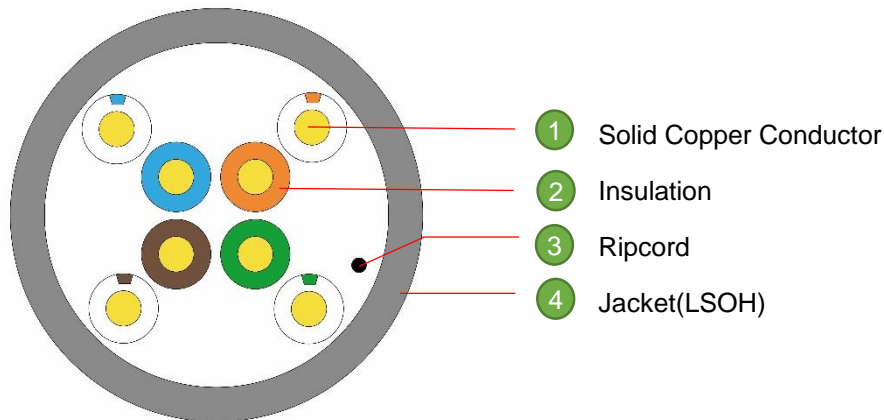
- Exceeds requirements of ANSI/TIA/EIA-568-B.2-1, EN 50173, ISO/IEC 11801, IEC 61156-5 and EN 50288-3-1 cabling standards for channels, links and components
- Error free performance up to 1 Gigabit Ethernet at 100 Mhz.
- Offered with different jacket colour and packages
- Easy identification of remaining cable through descending cable length marking

## APPLICATIONS

- 1000 Base-T Gigabit Ethernet
- 100 Base-TX Fast Ethernet
- 10 Base-T Ethernet
- 622 Mbps ATM
- 155 Mbps ATM
- ISDN
- 4/16 Mbps Token Ring
- 100 Mbps TP-PMD
- Broadband and baseband video

## MATERIAL AND PHYSICAL SPECIFICATIONS

<b>Conductor</b>	Material	100% Bare Annealed Copper
	Size	4x2x24 AWG
	Colour	Blue x Blue/White Strip
		Orange x Orange/White Strip
		Green x Green/White Strip
		Brown x Brown/White Strip
Insulation	Polyolefin	
Insulation Diameter	0,90 ± 0,05 mm.	
<b>Jacket</b>	Material	LSOH (Low Smoke Zero Halogen)
	Outer Diameter	5,10 ± 0,10 mm.
<b>Ripcord</b>	Material	Nylon





## COMPLIANCE

<b>Generic Cabling And Cabling Components Standards - Category 5e Requirements</b>
<ul style="list-style-type: none"> <li>ISO/IEC 11801-1:2017 (V.1.0) , ISO/IEC 11801-2:2017 (V.1.0)</li> <li>IEC 61156-5:2012 (V.2.1)</li> <li>EN 50173-1:2018</li> <li>EN 50173-2:2018</li> <li>EN 50288-3-1:2013</li> <li>ANSI/TIA-568-2.D:2018</li> </ul>
<b>Flammability, Halogen Acidity And Smoke Performance</b>
<ul style="list-style-type: none"> <li>IEC 60332-1-1:2015 (V.1.1), IEC 60332-1-2:2015 (V.1.1)</li> <li>IEC 60754-1:2011 (V.3.0), IEC 60754-2:2011 (V.2.0)</li> <li>IEC 61034-1:2013 (V.3.1), IEC 61034-2:2013 (V.3.1)</li> <li>EN 50575: 2014 + A1: 2016, EN 50399:2011+A1:2016</li> </ul>
<b>Standards For The Restriction Of Use Of Hazardous Substances In Electrical And Electronic Equipments</b>
<ul style="list-style-type: none"> <li>2011/65/EU (RoHS-2)</li> </ul>

## TRANSMISSION PERFORMANCE

FREQUENCY (Mhz.)	ATTENUATION (dB., max.)	RETURN LOSS (dB., min.)	NEXT (dB., min.)	PSNEXT (dB., min.)	ACR-F (dB., min.)	PS ACR-F (dB., min.)
1	1,9	30,0	79,3	75,3	84,8	79,8
4	3,7	35,0	70,0	66,0	72,8	67,8
8	5,2	35,0	68,5	64,5	68,7	63,7
10	5,8	35,0	64,3	60,3	64,8	59,8
16	7,2	39,2	63,9	59,9	60,0	55,0
20	8,3	39,2	63,9	59,9	58,7	53,7
25	9,4	39,2	63,0	59,0	56,8	51,8
31,25	10,4	39,2	60,0	56,0	55,0	50,0
62,5	14,9	34,8	58,7	54,7	49,0	44,0
100	19,2	34,8	53,1	49,1	44,6	39,6

Typical performance data for 100m. cable tested according to IEC 61156-5 at 20°C. Actual performance may vary depending on installation and environmental conditions.

## ENVIRONMENTAL AND PHYSICAL SPECIFICATIONS

Transportation and Storage Temperature	-20 / +80	°C
Installation Temperature	-20 / +60	°C
Operation Temperature	-20 / +60	°C
Relative Humidity	10 - 90, Non-condensing	%

## MECHANICAL SPECIFICATIONS

Tensile Strength	45	N./mm. <sup>2</sup> , Max.
Cold Bend Test @20 ± 2°C x 4 hour	No cracks occur	
Jacket Tensile Strength @ 100°C x 168 hour		
Before/After Aging	1.300 / 1.105	Psi,Min.
Jacket Elongation @ 100°C x 168 hour		
Before/After Aging	100 / 50	%,Min.
Insulation Tensile Strength@ 100°C x 48 hour		
Before/After Aging	2.400 / 1.800	Psi,Min.
Insulation Elongation @ 100°C x 48 hour		
Before/After Aging	300 / 225	%,Min.
Bending Radius		
Installation/Operation	8 / 4 x O.D.	mm.

## PART NUMBER CODING

Part Nr.	Product Description					
T111ZMXY	Zemecs Category 5e U/UTP 4x2x24# LSOH Solid LAN Cable					
M: Jacket Colour						
1	Light Grey	4	Red	7	Yellow	
2	Black	5	Green	8	Orange	
3	White	6	Blue	9	Violet	
X: Length						
1	305m.	2	500m.	3	1.000m.	
Y: Package Type						
		R	Reel			

