



OVERVIEW



Zemecs T131ZMXY/1 series Category 6_A U/UTP LAN cables are designed and manufactured to exceed performances specified by ANSI/TIA/EIA-568-C2:2009, EN 50173, ISO/IEC 11801, IEC 61156-5 and EN 50288-11-1 standards up to 500Mhz. Four twisted pairs of 23AWG solid copper conductors are formed around a centrally located cross filler increasing the electrical performance of the cable and jacketed with a ripcord. Products with LSOH jacket are delivered in packages of 305 m. Box , 500 and 1.000 m. reels.

The CPR compliant Zemecs T131ZMXY/1 LAN cables support network speeds up to 10G/s.

FEATURES

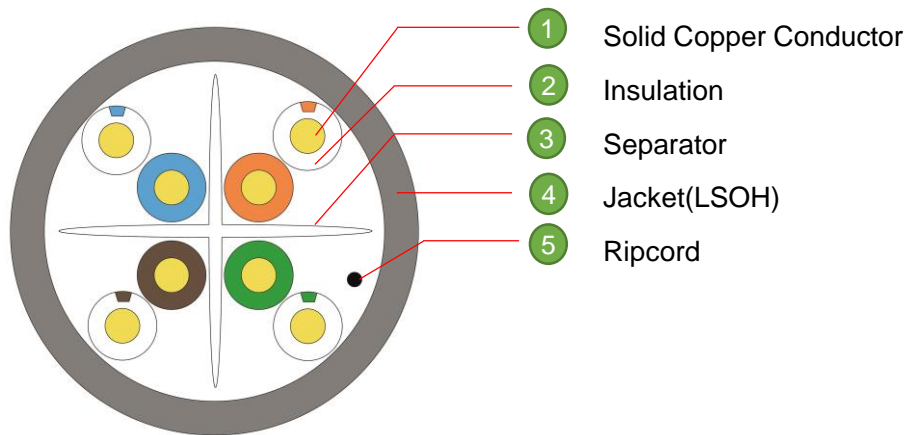
- Exceeds requirements of ANSI/TIA/EIA-568-2.D, EN 50173, ISO/IEC 11801, IEC 61156-5 and EN 50288-11-1 cabling standards for channels, links and components
- Supports PoE and PoE+ applications
- Error free performance up to 10 Gigabit Ethernet at 500 Mhz.
- Offered with different jacket colour and packages
- Easy identification of remaining cable through descending length cable marking

APPLICATIONS

- 10G BASE-T 10 Gigabit Ethernet
- 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

Conductor	Material Type	100% Bare Annealed Copper
	Size	4x2x23 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	1,05 ± 0,05 mm.	
Central Member	Type	Cross Separator
	Material	PE
Jacket	Material Type	LSOH (Low Smoke Zero Halogen)
	Outer Diameter	6,20 ± 0,1mm.
Ripcord	Material Type	Nylon



Drawing is not scaled



COMPLIANCE

Standards For Generic Cabling And Cabling Components - Category 6 _A Requirements
• ISO/IEC 11801:2011 (Ed.2.2)
• IEC 61156 - 5:2012 (Ed. 2.1)
• EN 50173-1:2011
• EN 50173-2:2007 (Including A1:2010 amendment)
• EN 50288-11-1:2012
• ANSI/TIA-568-C.2:2009
Standards For Flammability, Halogen Acidity And Smoke Performance
• IEC 60332-1-1:2015 (Ed. 1.1) , IEC 60332-1-2:2015 (Ed. 1.1)
• IEC 60754-1:2011 (Ed. 3.0), IEC 60754-2:2011 (Ed. 2.0)
• IEC 61034-1:2013 (Ed. 3.1), IEC 61034-2:2013 (Ed. 3.1)
Standards For The Restriction Of Use Of Hazardous Substances In Electrical And Electronic Equipments
• 2011/65/EU (RoHS-2)

TRANSMISSION PERFORMANCE

FREQUENCY (Mhz.)	INSERTION LOSS (dB., max)	RETURN LOSS (dB., min.)	NEXT (dB., min.)	PSNEXT (dB., min.)	ACR-F (dB., min.)	PS ACR-F (dB., min.)
1	1,6	26,1	79,9	78,3	76,7	74,2
4	3,0	33,5	79,9	77,0	67,5	65,8
8	4,1	32,1	75,7	74,4	60,7	58,9
10	4,6	31,3	75,4	74,4	59,0	57,9
16	5,8	30,9	70,4	67,6	54,9	53,8
20	6,5	29,3	68,8	66,7	53,1	52,4
25	7,3	31,4	65,1	64,1	51,6	51,1
31,25	8,1	32,5	65,9	64,7	49,9	49,5
62,5	11,6	24,8	60,4	57,2	45,4	43,9
100	14,7	20,5	56,9	54,5	45,5	41,5
200	21,1	22,0	48,1	47,1	35,9	34,2
250	23,7	18,7	49,0	46,6	31,5	29,0
500	34,3	14,6	37,4	33,8	23,4	21,8

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

PART NUMBER CODING

Part Number	Product Description
T131ZMXY/1	Zemecs Category 6 _A U/UTP 4x2x23# LSOH Solid LAN Cable

M: Jacket Colour					
1	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					
B	Box	R	Reel	C	Reel In Box

