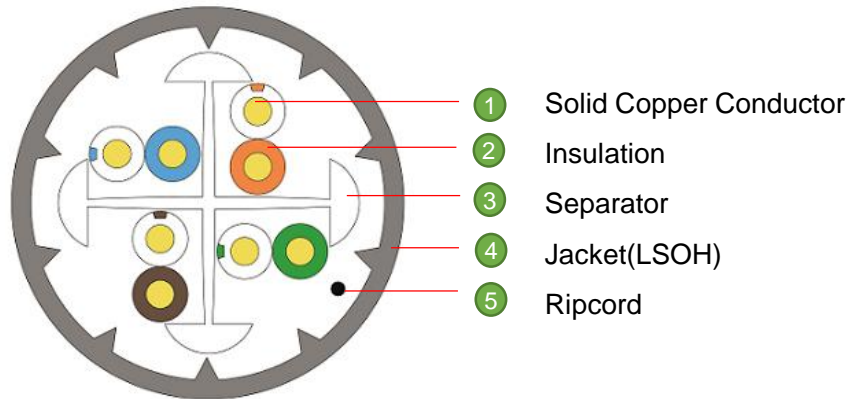


OVERVIEW

Zemecs T131ZMXY series Category 6_A U/UTP LAN cables are designed and manufactured to exceed performances specified by ANSI/TIA/EIA-568-2.D, EN 50173 and ISO/IEC 11801 standards up to 500 Mhz. at 10G speeds. They demonstrate excellent AXT suppression which is a critical parameter in high frequency unshielded LAN cable installations. Four twisted pairs of 23 AWG solid copper conductors are formed around a centrally located special design cross filler and jacketed with a ripcord.

Products with LSOH jacket are delivered in reels of 500 or 1.000m. Their electrical performance and CPR compliance are certificated through third parties and covered within Zemecs' 25 year system performance guarantee programme.



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 cable length marking
- Certificated by Delta(Force Technology)

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	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	1,03 ± 0,05 mm.	
Central Member	Tipi	Cross Separator
	Material	PE
Jacket	Material	LSOH (Low Smoke Zero Halogen)
	Outer Diameter	8,30 ± 0,30 mm.
Ripcord	Material	Nylon



COMPLIANCE

Generic Cabling And Cabling Components Standards - Category 6_A Requirements

- ISO/IEC 11801-1:2017 (V.1.0) , ISO/IEC 11801-2:2017 (V.1.0)
- IEC 61156 - 5:2012 (V.2.1)
- EN 50173-1:2018
- EN 50173-2:2018
- EN 50288-11-1:2012
- ANSI/TIA-568-2.D:2018

Flammability, Halogen Acidity And Smoke Performance

- IEC 60332-1-1:2015 (V.1.1), IEC 60332-1-2:2015 (V.1.1)
- IEC 60754-1:2011 (V.3.0), IEC 60754-2:2011 (V.2.0)
- IEC 61034-1:2013 (V.3.1), IEC 61034-2:2013 (V.3.1)
- EN 50575: 2014 + A1: 2016, EN 50399:2011+A1:2016

Standards For The Restriction Of Use Of Hazardous Substances In Electrical And Electronic Equipments

- 2011/65/EU (RoHS-2)

Certification

- Certificated by Delta (Force Technology)

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	28,1	81,9	80,3	78,7	76,2
4	3,0	35,5	81,9	79,0	69,5	67,8
8	4,1	34,1	77,7	76,4	62,7	60,9
10	4,6	33,3	77,4	76,4	61,0	59,9
16	5,5	32,9	72,4	69,6	56,9	55,8
20	6,1	31,3	70,8	68,7	55,1	54,4
25	7,0	33,4	67,1	66,1	53,6	53,1
31,25	7,9	34,5	67,9	66,7	51,9	51,5
62,5	11,2	26,8	62,4	59,2	47,4	45,9
100	14,3	22,5	58,9	56,5	47,5	43,5
200	20,6	24,0	50,1	49,1	37,9	36,2
250	22,9	20,7	51,0	48,6	33,5	31,0
500	33,8	16,6	39,4	35,8	25,4	23,8

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	60	N./mm. ² , 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
T131ZMXY	Zemecs Category 6 _A U/UTP 4x2x23# 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				

