

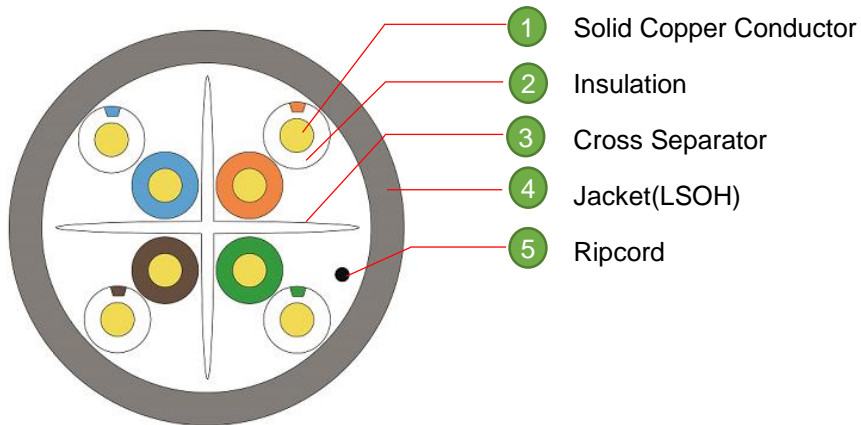


OVERVIEW



Zemecs T121Z series Category 6 U/UTP LSOH Solid LAN cables are designed and manufactured to exceed performances specified by ANSI/TIA/EIA-568-2.D, EN 50173, ISO/IEC 11801, IEC 61156-5 and EN 50288-6-1 standards up to 250Mhz. Four twisted pairs of 23 AWG 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.

Zemecs T121Z LAN cables support network speeds up to 1 Gigabit/s. 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 50288-6-1 cabling standards for channels, links and components
- Supports PoE and PoE+ applications
- Error free performance up to 1 Gigabit Ethernet at 250 Mhz.
- Offered with different jacket colour and packages
- Easy identification of remaining cable through descending cable length marking
- Certificated by Delta(Force Technology) and Intertek(ETL)

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

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	0,97 ± 0,05 mm.	
Central Member	Type	Cross Separator
	Material	PE
Jacket	Material	LSOH (Low Smoke Zero Halogen)
	Outer Diameter	6,10 ± 0,10 mm.
Ripcord	Material	Nylon



COMPLIANCE

Generic Cabling And Cabling Components Standards - Category 6 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 50288-6-1:2013
• 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 60754-2:2019 (V.2.1)
• IEC 61034-1:2019 (V.3.2), IEC 61034-2:2019 (V.3.2)
• 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 Intertek(ETL) and 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	32,8	88,9	86,9	83,1	80,1
4	2,2	35,6	83,7	81,7	76,3	73,3
8	2,9	34,3	77,8	75,8	72,7	69,7
10	3,2	33,0	73,6	71,6	66,7	63,7
16	4,4	30,0	70,1	68,1	60,2	57,2
20	5,1	27,3	71,9	69,9	58,1	55,1
25	6,0	26,2	68,7	66,7	58,5	55,5
31,25	6,9	26,5	63,4	61,4	58,9	55,9
62,5	10,0	23,9	60,9	58,9	48,2	45,2
100	13,3	21,5	56,2	54,2	42,3	39,3
200	19,0	20,1	55,1	53,1	37,9	34,9
250	21,7	17,1	50,9	48,9	29,3	26,3

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	110	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					
T121ZMXY	Zemecs Category 6 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						
B or B/1	Box	R	Reel	C	Reel In Box	

