



OVERVIEW



Zemecs T113Z series Category 5e F/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 50288-5-1 standards up to 100 Mhz. Four twisted pairs of 24 AWG solid copper conductors are overall wrapped by an aluminum polyester tape and jacketed with a tinned copper drain wire. Products with LSOH jacket are delivered in packages of 305 m. box, 500 and 1.000 m. reels.

Zemecs Category 5e F/UTP LAN cables support network speeds up to 1 Gigabit/s and their compliance to CPR is certificated.

FEATURES

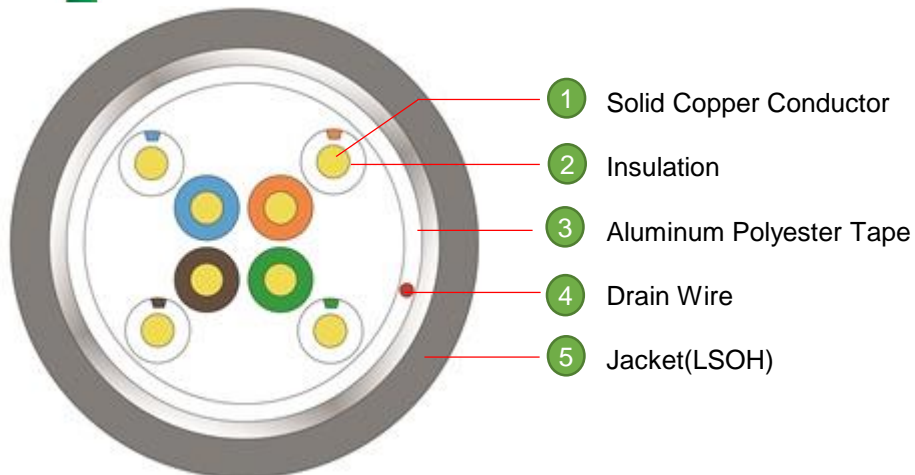
- Exceeds requirements of ANSI/TIA/EIA-568-2.D, EN 50173, ISO/IEC 11801, IEC 61156-5 and EN 50288-5-1 cabling standards for channels, links and components
- Error free performance up to 1 Gigabit Ethernet at 100 Mhz.
- Guaranteed stable performance at all frequencies thanks to aluminum foil reducing impact of EMI
- 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

Conductor	Material Type	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	0,95 ± 0,05 mm.	
Jacket	Overall Shield	Aluminum Polyester Foil (foil facing outside)
	Material Type	LSOH (Low Smoke Zero Halogen)
	Outer Diameter	5,30 ± 0,10 mm.
Drain Wire	Material Type	0,40mm. Tinned Annealed Copper





COMPLIANCE

Generic Cabling And Cabling Components Standards - Category 5e Requirements
• ISO/IEC 11801:2011 (V.2.2)
• IEC 61156 - 5:2012 (V. 2.1)
• EN 50173-1:2011
• EN 50173-2:2007 (Including A1:2010 amendmend)
• EN 50288-5-1:2013
• 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 60754-1:2011 (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)

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	1,9	27,8	88,9	86,9	83,1	80,1
4	3,6	37,1	83,7	81,7	76,3	73,3
8	5,0	39,1	77,8	75,8	72,7	69,7
10	5,6	41,4	73,6	71,6	66,7	63,7
16	7,2	47,9	70,1	68,1	60,2	57,2
20	8,3	46,0	71,9	69,9	58,1	55,1
25	9,4	41,2	68,7	66,7	58,5	55,5
31,25	10,4	38,0	63,4	61,4	58,9	55,9
62,5	14,9	35,3	60,9	58,9	48,2	45,2
100	19,2	29,0	56,2	54,2	42,3	39,3

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. 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				
T113ZMXY	Zemecs Category 5e F/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					
B	Box	R	Reel	C	Reel In Box

