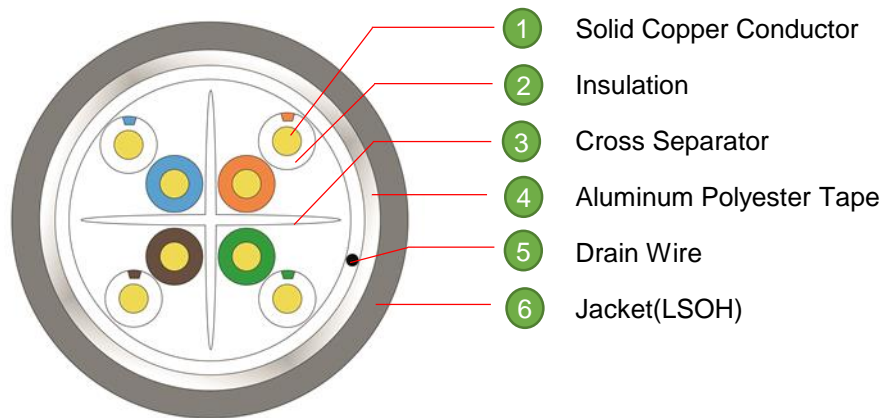




## OVERVIEW

Zemecs T133Z series Category 6<sub>A</sub> 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 50288-10-1 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. An aluminum polyester tape is foiled on the pairs and finally jacketed with a tinned copper drain wire. Products with LSOH jacket are delivered in 305, 500 and 1.000 m. reels.

The CPR compliant Zemecs Category 6<sub>A</sub> F/UTP LAN cables support network speeds up to 10 Gigabit/s.



- 1 Solid Copper Conductor
- 2 Insulation
- 3 Cross Separator
- 4 Aluminum Polyester Tape
- 5 Drain Wire
- 6 Jacket(LSOH)

## FEATURES

- Exceeds requirements of ANSI/TIA/EIA-568-2.D, EN 50173, ISO/IEC 11801, IEC 61156-5 and EN 50288-10-1 cabling standards for channels, links and components
- Supports PoE and PoE+ applications
- Error free performance up to 10 Gigabit Ethernet at 500 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

- 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

<b>Conductor</b>	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	1,18 ± 0,05 mm.		
Overall Shield	Aluminum Polyester Foil (foil facing outside)		
<b>Central Member</b>	Type	Cross Separator	
	Material Type	PE	
<b>Jacket</b>	Material Type	LSOH (Low Smoke Zero Halogen)	
	Outer Diameter	7,20 ± 0,10 mm.	
<b>Drain Wire</b>	Material Type	0,45mm. Tinned Annealed Copper	



## COMPLIANCE

Generic Cabling And Cabling Components Standards - Category 6 <sub>A</sub> 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 50288-10-1:2013
•	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	27,1	77,8	74,8	70,9	69,9
4	3,7	31,9	77,8	74,8	61,7	61,7
8	4,9	33,0	77,8	74,8	57,0	56,0
10	5,8	26,3	77,8	74,8	54,7	54,0
16	7,4	28,1	77,7	74,7	51,1	50,1
20	8,2	27,7	77,7	74,7	50,1	48,9
25	9,3	26,9	77,7	74,7	48,3	47,1
31,25	10,3	28,5	24,0	74,7	48,0	46,8
62,5	14,9	29,9	75,2	72,2	51,5	49,3
100	18,8	25,3	72,1	69,1	36,2	36,1
200	26,9	28,5	68,8	65,8	36,2	35,2
250	30,7	26,3	64,6	61,6	26,2	26,1
500	45,0	18,5	61,6	58,6	18,8	18,8

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	60	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
T133ZMXY	Zemecs Category 6 <sub>A</sub> F/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				

