



## OVERVIEW

Zemecs T215 series Category 5e UTP LSOH patch cords are designed and manufactured to exceed performances specified by of ANSI/TIA/EIA-568-2.D, EN 50173, ISO/IEC 11801-1:2017 and IEC 61935-2 standards up to 100Mhz. for 1 Gigabit network speed. The products are constructed by terminating four 4 pairs of 24# stranded cable with 50µ" gold plated RJ-45 .

The cords are offered with 9 different jacket colours at lengths starting from 0,20m.

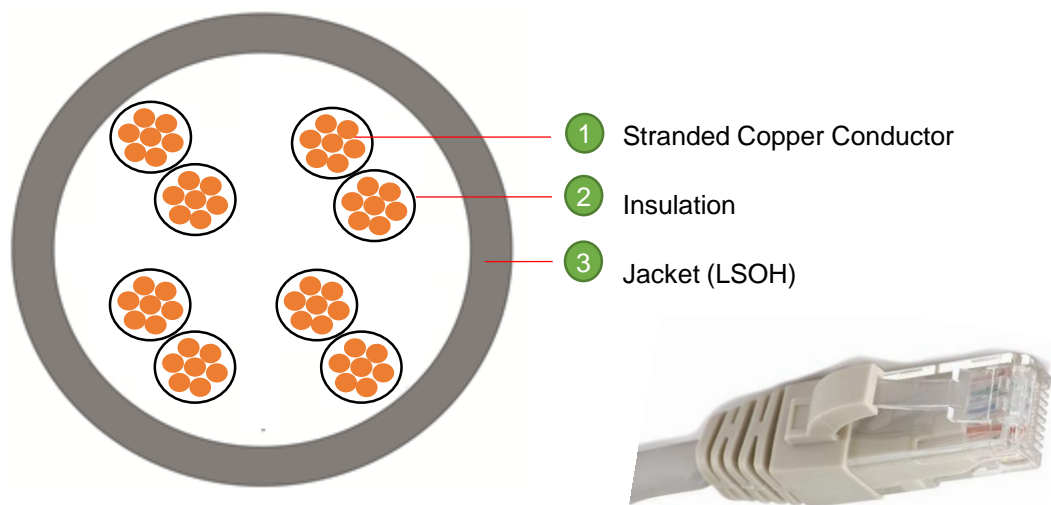
## FEATURES

- Exceeds requirements of ANSI/TIA/EIA-568-2.D, EN 50173, ISO/IEC 11801-1:2017 and IEC 61935-2 Category 5e balanced cord requirements
- Supports PoE and PoE+ applications
- Error free performance up to 100 Mhz. at 1 Gigabit Ethernet
- Offered with different jacket colours

## 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



<b>Conductor</b>	Material Type	100% Bare Annealed Copper
	Size	24 AWG
	Colour	Blue x Blue/White Stripe
		Orange x Orange/White Stripe
		Green x Green/White Stripe
		Brown x Brown/White Stripe
Insulation	PE	
Insulation Diameter	0,90 ± 0,05 mm.	
<b>Jacket</b>	Material Type	LSOH (Low Smoke Zero Halogen)
	Outer Diameter	5,20 ± 0,2mm.
<b>RJ-45 Plug</b>	Material Type	8P8C 50µ" 94V-2 (C6RH5Z50V2IL)
	Contact Surface	Phosphorous Bronze, 50µ" Gold Plated Over 140µ" Nickel Undercoat
	Installation	TIA 568 A/B



## COMPLIANCE

Standards For Generic Cabling And Cabling Components - Category 5e Balanced Cord Requirements
• ISO/IEC 11801-1:2017 (V.1.0)
• ISO/IEC 11801-2:2017 (V.1.0)
• EN 50173-1:2018
• EN 50173-2:2018
• ANSI/TIA/EIA 568.2-D:2018
• IEC 61935-2:2010 (V.3.0) (transmission requirements)
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.)	ELFEXT (dB., min.)	PS ELFEXT (dB., min.)
1	2,4	20,0	74,3	72,3	67,8	64,8
4	4,9	23,0	65,3	63,3	55,8	52,8
8	6,9	24,5	60,8	58,8	49,7	46,7
10	7,9	25,0	59,3	57,3	47,8	44,8
16	9,9	25,0	46,2	54,2	43,7	40,7
20	10,2	25,0	54,8	52,8	41,8	38,8
25	11,4	24,2	53,3	51,3	39,8	36,8
31,25	12,8	23,3	51,9	49,9	37,9	34,9
62,5	18,5	20,7	47,4	45,4	31,9	28,9
100	23,8	19,0	44,3	42,3	27,8	24,8

Typical performance data for 2m. cord tested according to IEC 61935-2 at 20°C. Actual performance may vary depending on installation and environmental conditions.

## ENVIRONMENTAL AND PHYSICAL SPECIFICATIONS

Transportation & Storage Temperature	-25 / +70	°C
Installation Temperature	-20 / +60	°C
Operation Temperature	-20 / +60	°C
Relative Humidity	10 - 90, Non-condensing	%

## ELECTRICAL SPECIFICATIONS

Conductor Resistance (@20 °C)	5	Ω., Max.
Contact Resistance	20	mΩ., Max.
Dc Resistance Unbalance	2	%, Max.
Characteristic Impedance @1-250 Mhz.	100±6	Ω.
Current Rating	1,0	A., Max.
Dielectric Withstanding Voltage	75	VAC.,Max.
Dielectric Strength	1	kVAC,Max.
DC Impedance	72	Ω/km.,Max.
Insulation Resistance (@500VDC)	5.000	MΩ,Min.

## MECHANICAL SPECIFICATIONS

Durability	1.200	
Pulling Tension Strength	10 (1Kgf.)	N./mm <sup>2</sup> , Max.
Cable to Plug Pulling Tension Strength	90 (9Kgf.)	N./mm <sup>2</sup> , Max.
Bending Radius(Installation/Operation)	8 / 4 x O.D.	mm.

## PART NUMBER CODING

Part Nr.	Product Description					
T215ZXY	Zemecs Category 5e UTP 24# LSOH Patch Cord					
<b>X: Jacket Colour</b>			<b>Y: Length</b>			
1	Light Grey	4	Red	7	Yellow	<b>S2</b> 0,20m.
2	Black	5	Green	8	Orange	<b>S</b> 0,25m.
3	White	6	Blue	9	Violet	<b>0</b> 0,50m.
						<b>1</b> 2m.
						<b>5</b> 5m.
						<b>M</b> 10m.
						<b>L</b> 15m.

