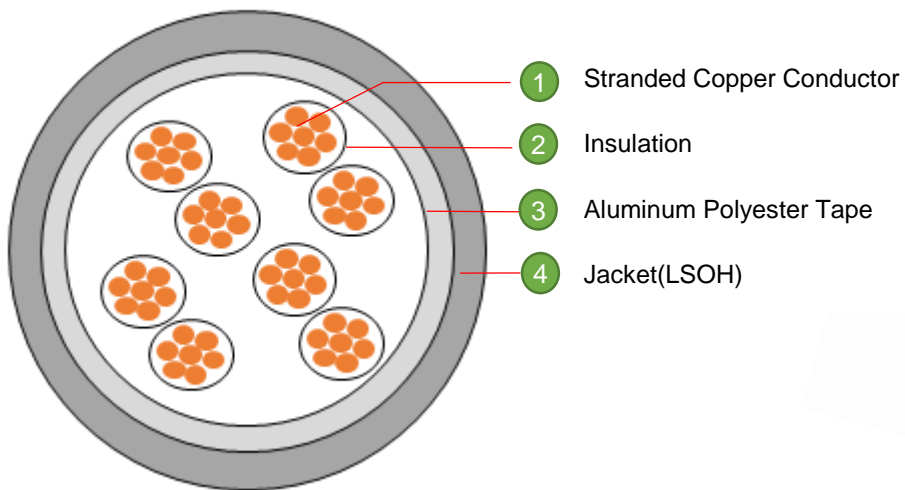




OVERVIEW

Zemecs T228 series Category 6 F/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, IEC 61935-2 and IEC 60512-99-001 standards up to 250Mhz. for 1 Gigabit network speed. The products are constructed by braiding individually foiled 4 pairs of 24# stranded conductors under LSOH sheath which are then terminated with 50µ" gold plated RJ-45 plugs at both ends. The cords offered under 9 different sheath colours and lengths starting from 0,20m. are covered within Zemecs' 25 year system performance warranty programme.



Drawing is not scaled.

FEATURES

- Exceeds requirements of ANSI/TIA/EIA-568-2.D, EN 50173, ISO/IEC 11801-1:2017, IEC 61935-2 and IEC 60512-99-001 cabling standards for channels, links and components
- Supports PoE and PoE+ applications
- Error free performance up to 250 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

Conductor	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	1,00 ± 0,03 mm.	
Jacket	Material Type	LSOH (Low Smoke Zero Halogen)
	Outer Diameter	6,10 ± 0,1mm.
RJ-45 Plug	Material Type	8P8C 50µ" 94V-2 (C6R5Z50V2SIL)
	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 6 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)
- IEC 60512-99-001 (V1.0) (plug)

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	2,1	20,0	74,0	72,0	70,0	67,5
4	3,9	22,7	65,1	63,1	59,2	55,4
8	5,6	24,2	60,5	58,5	53,1	49,4
10	6,2	24,7	59,1	57,1	51,0	47,5
16	7,8	24,7	46,0	54,0	46,5	43,5
20	8,5	24,7	54,5	52,5	44,1	41,5
25	9,6	24,0	53,0	51,0	41,4	39,6
31,25	10,9	23,0	51,6	49,6	39,0	37,7
62,5	15,9	20,4	47,1	45,1	31,6	28,7
100	19,7	19,0	44,1	42,1	27,5	24,5
200	28,9	16,2	39,5	37,5	21,5	18,5
250	32,2	15,3	38,0	36,0	19,5	16,5

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 ² , Max.
Cable to Plug Pulling Tension Strength	90 (9Kgf.)	N./mm ² , Max.
Bending Radius(Installation/Operation)	8 / 4 x O.D.	mm.

PART NUMBER CODING

Part Nr.	Product Description
T228ZXY	Zemecs Category 6 F/UTP 24# LSOH Patch Cord

X: Jacket Colour						Y: Length					
1	Light Grey	4	Red	7	Yellow	S2	0,20m.	1	2m.	5	7m.
2	Black	5	Green	8	Orange	S	0,25m.	2	3m.	M	10m.
3	White	6	Blue	9	Violet	0	0,50m.	3	4m.	L	15m.

