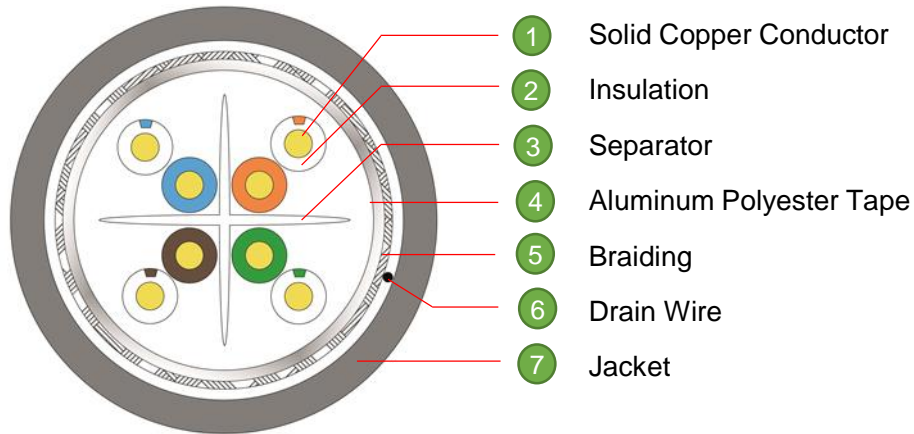




OVERVIEW

Zemecs T127Z series Category 6 SF/UTP 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 250 Mhz. Four twisted pairs of 23 AWG solid copper conductors are first overall foiled by aluminum tape and then braided by tinned copper or aluminum manganese. Products with LSOH jacket are delivered in packages of 305m., 500m. and 1.000 m. reels.

The CPR compliant Zemecs Category 6 SF/UTP LAN cables support network speeds up to 1 Gigabit/s.



Drawing is not scaled.

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 250 Mhz.
- High ACR values increasing signal quality and network connection speed
- Guaranteed stable performance at all frequencies thanks to aluminum foil reducing impact of EMI
- Offered with different jacket colour and packages

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 Copperper |
| | 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 | 1,05 ± 0,05 mm. | |
| Pair Insulation | Aluminum Polyester Tape (foil facing outside) | |
| Braid | Tinned Copper Or Aluminum Manganese, Min. 30% | |
| Central Member | Type | Cross Separator |
| | Material Type | PE |
| Jacket | Material | LSOH (Low Smoke Zero Halogen) |
| | Outer Diameter | 6,60 ± 0,1mm. |
| Drain Wire | Material | 0,45mm. Tinned Annealed Copper |
| 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 50288-5-1:2013 |
| • 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 | 1,6 | 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 |

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. Transmission performance supports 500Mhz' however data up to 250Mhz is given.

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. 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 | | | | | |
|-------------------------|---|---|-------|---|---------|--|
| T127ZMXY | Zemecs Category 6 SF/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 | | | | | |

