# STRUCTURE CABLING

## LAN CABLE

### S/FTP Shielded CAT 7A Twisted Pair Installation Cable

### Standard

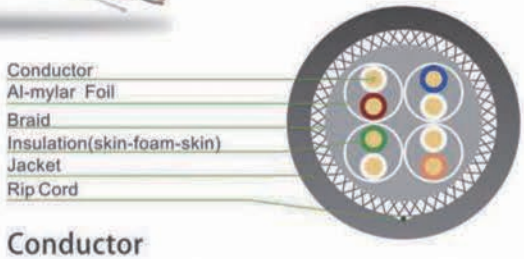
- IEC/ISO 61156-5
- ISO/IEC 11801

### Application

- Suitable for structured premises cabling.
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class FA applications.
- ISDN,Ethernet 10 Base-T,Fast Ethernet 100 Base-T, Gigabit Ethernet 1000Base-T ,10G Base-T.(IEEE 802.3).
- Token Ring4/16Mbit/s,TP-PMD/TP/DDI 125Mbit/s,ATM 155Mbit/s.(IEEE 802.5 ).

### Electrical Characteristics

- Impedance:4 - 100MHz 100±15 (ohms).
  100 - 200MHz 100±22 (ohms).
  200 - 1000MHz 100±32 (ohms).
- Max. Conductor DC Resistance 20˚C:8.4(ohms/100m).
- Resistance unbalance (%):max 2.5.
- Pair-to-Ground Capacitance Unbalance:330 (pF/100m).
- Transfer Impendance:Max10 mohms/m@100MHz.
- Coupling Attenuation:Min 80 dB.
- Installation temperature:0~50˚C.
- Operation temperature:-20~60˚C.




### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 23AWG |
| Insulation | PE(Skin-Foam-Skin) |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | blue x white, orange x white, green x white, brown x white |
| Individual pair shield | aluminum foil, providing 100% coverage, foil face out |
| Overall shield | Tinned copper braid |
| Drain wire | None |

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D285-P | CMX | 8.3±0.3 |
| D285-C | CM | 8.3±0.3 |
| D285-R | CMR | 8.3±0.3 |
| D285-L | LSZH | 8.3±0.3 |
| D285-E | LDPE | 8.3±0.3 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | Propagation Delay(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ELNEXT (min) | PSELNEXT (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 4 | 23.0 | 3.7 | 552 | 25 | 78.0 | 75.0 | 78.0 | 75.0 |
| 8 | 24.5 | 5.2 | 547 | 25 | 78.0 | 75.0 | 77.2 | 74.2 |
| 10 | 25.0 | 5.8 | 545 | 25 | 78.0 | 75.0 | 75.3 | 72.3 |
| 16 | 25.0 | 7.3 | 543 | 25 | 78.0 | 75.0 | 71.2 | 68.2 |
| 20 | 25.0 | 8.2 | 542 | 25 | 78.0 | 75.0 | 69.3 | 66.3 |
| 25 | 24.3 | 9.2 | 541 | 25 | 78.0 | 75.0 | 67.3 | 64.3 |
| 31.25 | 23.6 | 10.3 | 540 | 25 | 78.0 | 75.0 | 65.4 | 62.4 |
| 62.5 | 21.5 | 14.6 | 539 | 25 | 75.5 | 72.5 | 59.4 | 56.4 |
| 100 | 20.1 | 18.5 | 538 | 25 | 72.4 | 69.4 | 55.3 | 52.3 |
| 200 | 18.0 | 26.5 | 537 | 25 | 67.9 | 64.9 | 49.3 | 46.3 |
| 250 | 17.3 | 29.7 | 536 | 25 | 66.4 | 63.4 | 47.3 | 44.3 |
| 300 | 17.3 | 32.7 | 536 | 25 | 65.2 | 62.2 | 45.8 | 42.8 |
| 400 | 17.3 | 38.0 | 536 | 25 | 63.4 | 60.4 | 43.3 | 40.3 |
| 500 | 17.3 | 42.8 | 536 | 25 | 61.9 | 58.9 | 41.3 | 38.3 |
| 600 | 17.3 | 47.1 | 535 | 25 | 60.7 | 57.7 | 39.7 | 36.7 |
| 700 | na | 51.1 | 535 | 25 | 59.7 | 56.7 | na | na |
| 800 | na | 54.9 | 535 | 25 | 58.9 | 55.9 | na | na |
| 900 | na | 58.5 | 535 | 25 | 58.1 | 55.1 | na | na |
| 1000 | na | 61.9 | 535 | 25 | 57.4 | 54.4 | na | na |

Note: The above transmission performance for the 100M, 20 ± 2˚C under the conditions tested.





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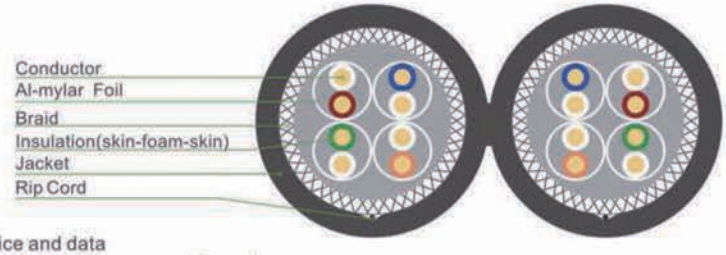
# STRUCTURE CABLING

## LAN CABLE

### S/FTP Shielded CAT 7 Twisted Pair Installation Cable

### Standard

- IEC/ISO 61156-5
- ISO/IEC 11801




### Application

- Suitable for structured premises cabling.
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class F applications.
- ISDN,Ethernet 10 Base-T,Fast Ethernet 100 Base-T, Gigabit Ethernet 1000Base-T ,10G Base-T.(IEEE 802.3).
- Token Ring4/16Mbit/s,TP-PMD/TP/DDI 125Mbit/s,ATM 155Mbit/s.(IEEE 802.5 ).

### Electrical Characteristics

- Impedance:4 - 100MHz 100±15 (ohms).
  100 - 200MHz 100±22 (ohms).
  200 - 600MHz 100±32 (ohms).
- Max. Conductor DC Resistance 20˚C:8.4(ohms/100m).
- Resistance unbalance (%): max 2.5.
- Pair-to-Ground Capacitance Unbalance:330 (pF/100m).
- Transfer Impendance:Max10 mohms/m@100MHz.
- Coupling Attenuation:Min 80 dB.
- Installation temperature:0~50˚C.
- Operation temperature:-20~60˚C.

### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 23AWG |
| Insulation | PE(Skin-Foam-Skin) |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | blue x white, orange x white, green x white, brown x white |
| Individual pair shield | aluminum foil, providing 100% coverage, foil face out |
| Overall shield | Tinned copper braid |
| Drain wire | None |

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D275-P | CMX | (8.5+8.5)±0.3 |
| D275-C | CM | (8.5+8.5)±0.3 |
| D275-R | CMR | (8.5+8.5)±0.3 |
| D275-L | LSZH | (8.5+8.5)±0.3 |
| D275-E | LDPE | (8.5+8.5)±0.3 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | Propagation Delay(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ELNEXT (min) | PSELNEXT (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 4 | 23.0 | 3.7 | 552 | 25 | 78.0 | 75.0 | 78.0 | 75.0 |
| 8 | 24.5 | 5.2 | 547 | 25 | 78.0 | 75.0 | 77.2 | 74.2 |
| 10 | 25.0 | 5.9 | 545 | 25 | 78.0 | 75.0 | 75.3 | 72.3 |
| 16 | 25.0 | 7.4 | 543 | 25 | 78.0 | 75.0 | 71.2 | 68.2 |
| 20 | 25.0 | 8.3 | 542 | 25 | 78.0 | 75.0 | 69.3 | 66.3 |
| 25 | 24.3 | 9.3 | 541 | 25 | 78.0 | 75.0 | 67.3 | 64.3 |
| 31.25 | 23.6 | 10.4 | 540 | 25 | 78.0 | 75.0 | 65.4 | 62.4 |
| 62.5 | 21.5 | 14.9 | 539 | 25 | 75.5 | 72.5 | 59.4 | 56.4 |
| 100 | 20.1 | 19.0 | 538 | 25 | 72.4 | 69.4 | 55.3 | 52.3 |
| 200 | 18.0 | 27.5 | 537 | 25 | 67.9 | 64.9 | 49.3 | 46.3 |
| 250 | 17.3 | 31.0 | 536 | 25 | 66.4 | 63.4 | 47.3 | 44.3 |
| 300 | 17.3 | 34.2 | 536 | 25 | 65.2 | 62.2 | 45.8 | 42.8 |
| 400 | 17.3 | 40.0 | 536 | 25 | 63.4 | 60.4 | 43.3 | 40.3 |
| 500 | 17.3 | 45.3 | 536 | 25 | 61.9 | 58.9 | 41.3 | 38.3 |
| 600 | 17.3 | 50.1 | 535 | 25 | 60.7 | 57.7 | 39.7 | 36.7 |

Note: The above transmission performance for the 100M, 20 ± 2˚C under the conditions tested.





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# STRUCTURE CABLING

## LAN CABLE

### S/FTP Shielded CAT 7 Twisted Pair Installation Cable

### Standard

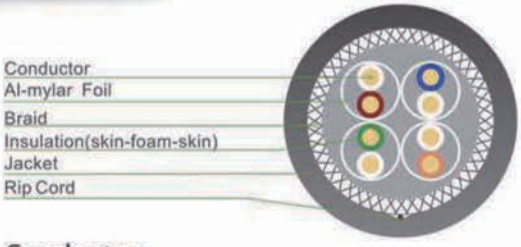
- IEC/ISO 61156-5
- ISO/IEC 11801

### Application

- Suitable for structured premises cabling.
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class F applications.
- ISDN,Ethernet 10 Base-T,Fast Ethernet 100 Base-T, Gigabit Ethernet 1000Base-T ,10G Base-T.(IEEE 802.3).
- Token Ring4/16Mbit/s,TP-PMD/TP/DDI 125Mbit/s,ATM 155Mbit/s.(IEEE 802.5 ).

### Electrical Characteristics

- Impedance: 4 - 100MHz 100±15 (ohms).
  100 - 200MHz 100±22 (ohms).
  200 - 600MHz 100±32 (ohms).
- Max. Conductor DC Resistance 20˚C:8.4(ohms/100m).
- Resistance unbalance (%) :max 2.5.
- Pair-to-Ground Capacitance Unbalance:330 (pF/100m).
- Transfer Impendance:Max10 mohms/m@100MHz.
- Coupling Attenuation:Min 80 dB.
- Installation temperature:0~50˚C.
- Operation temperature:-20~60˚C.




### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 23AWG |
| Insulation | PE(Skin-Foam-Skin) |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | blue x white, orange x white, green x white, brown x white |
| Individual pair shield | aluminum foil, providing 100% coverage, foil face out |
| Overall shield | Tinned copper braid |
| Drain wire | None |

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D195-P | CMX | 8.3±0.3 |
| D195-C | CM | 8.3±0.3 |
| D195-R | CMR | 8.3±0.3 |
| D195-L | LSZH | 8.3±0.3 |
| D195-E | LDPE | 8.3±0.3 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | Propagation Delay(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ELNEXT (min) | PSELNEXT (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 4 | 23.0 | 3.7 | 552 | 25 | 78.0 | 75.0 | 78.0 | 75.0 |
| 8 | 24.5 | 5.2 | 547 | 25 | 78.0 | 75.0 | 77.2 | 74.2 |
| 10 | 25.0 | 5.9 | 545 | 25 | 78.0 | 75.0 | 75.3 | 72.3 |
| 16 | 25.0 | 7.4 | 543 | 25 | 78.0 | 75.0 | 71.2 | 68.2 |
| 20 | 25.0 | 8.3 | 542 | 25 | 78.0 | 75.0 | 69.3 | 66.3 |
| 25 | 24.3 | 9.3 | 541 | 25 | 78.0 | 75.0 | 67.3 | 64.3 |
| 31.25 | 23.6 | 10.4 | 540 | 25 | 78.0 | 75.0 | 65.4 | 62.4 |
| 62.5 | 21.5 | 14.9 | 539 | 25 | 75.5 | 72.5 | 59.4 | 56.4 |
| 100 | 20.1 | 19.0 | 538 | 25 | 72.4 | 69.4 | 55.3 | 52.3 |
| 200 | 18.0 | 27.5 | 537 | 25 | 67.9 | 64.9 | 49.3 | 46.3 |
| 250 | 17.3 | 31.0 | 536 | 25 | 66.4 | 63.4 | 47.3 | 44.3 |
| 300 | 17.3 | 34.2 | 536 | 25 | 65.2 | 62.2 | 45.8 | 42.8 |
| 400 | 17.3 | 40.0 | 536 | 25 | 63.4 | 60.4 | 43.3 | 40.3 |
| 500 | 17.3 | 45.3 | 536 | 25 | 61.9 | 58.9 | 41.3 | 38.3 |
| 600 | 17.3 | 50.1 | 535 | 25 | 60.7 | 57.7 | 39.7 | 36.7 |

Note: The above transmission performance for the 100M, 20 ± 2˚C under the conditions tested

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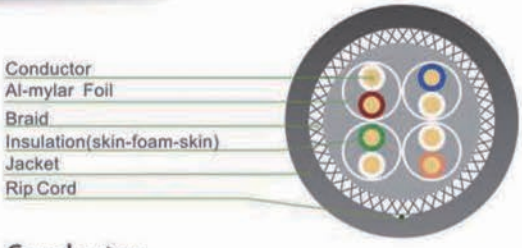
# STRUCTURE CABLING

## LAN CABLE

### S/FTP Shielded CAT 6A Twisted Pair Installation Cable

### Standard

- IEC/ISO 61156-5
- ANSI/TIA568C.2
- ISO/IEC 11801




### Application

- Suitable for structured premises cabling.
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class EA applications.
- ISDN,Ethernet 10 Base-T,Fast Ethernet 100 Base-T,Gigabit Ethernet 1000Base-T ,10G Base-T.(IEEE 802.3).
- Token Ring4/16Mbit/s,TP-PMD/TP/DDI 125Mbit/s, ATM 155Mbit/s.(IEEE 802.5 ).

### Electrical Characteristics

- Impedance:4 - 100MHz 100±15 (ohms) .
  100 - 200MHz 100±22 (ohms).
  200 - 500MHz 100±32 (ohms).
- Max. Conductor DC Resistance 20˚C:8.7(ohms/100m).
- Resistance unbalance (%):max 2.5.
- Pair-to-Ground Capacitance Unbalance 330 (pF/100m).
- Transfer Impendance:Max10 mohms/m@100MHz.
- Coupling Attenuation:Min 80 dB.
- Installation temperature:0~50˚C.
- Operation temperature:-20~60˚C.

### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 23AWG |
| Insulation | PE(Skin-Foam-Skin) |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | blue x white, orange x white, green x white, brown x white |
| Individual pair shield | aluminum foil, providing 100% coverage, foil face out |
| Overall shield | Tinned copper braid |
| Drain wire | None |

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D175-P | CMX | 8.3±0.3 |
| D175-C | CM | 8.3±0.3 |
| D175-R | CMR | 8.3±0.3 |
| D175-L | LSZH | 8.3±0.3 |
| D175-E | LDPE | 8.3±0.3 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | Propagation Delay(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ACR-F (min) | PSACR-F (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 1 | 20.0 | 2.1 | 570 | 45 | 74.3 | 72.3 | 67.8 | 64.8 |
| 4 | 23.0 | 3.8 | 552 | 45 | 65.3 | 63.3 | 55.8 | 52.8 |
| 10 | 25.0 | 5.9 | 545 | 45 | 59.3 | 57.3 | 47.8 | 44.7 |
| 16 | 25.0 | 7.5 | 543 | 45 | 56.2 | 54.2 | 43.7 | 40.7 |
| 20 | 25.0 | 8.4 | 542 | 45 | 54.8 | 52.8 | 41.8 | 38.8 |
| 31.25 | 23.6 | 10.5 | 540 | 45 | 51.9 | 49.9 | 37.9 | 34.9 |
| 62.5 | 21.5 | 15.0 | 539 | 45 | 47.4 | 45.4 | 31.9 | 28.9 |
| 100 | 20.1 | 19.1 | 538 | 45 | 44.3 | 42.3 | 27.8 | 24.8 |
| 200 | 18.0 | 27.6 | 537 | 45 | 39.8 | 37.8 | 21.8 | 18.8 |
| 300 | 17.3 | 34.3 | 536 | 45 | 37.1 | 35.1 | 18.3 | 15.3 |
| 400 | 17.3 | 40.1 | 536 | 45 | 35.3 | 33.3 | 15.8 | 12.8 |
| 500 | 17.3 | 45.3 | 536 | 45 | 33.8 | 31.8 | 13.8 | 10.8 |

Note: The above transmission performance for the 100M, 20 ± 2˚C under the conditions tested.





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# STRUCTURE CABLING

## LAN CABLE

### F/FTP Shielded CAT6A Twisted Pair Installation Cable

### Standard

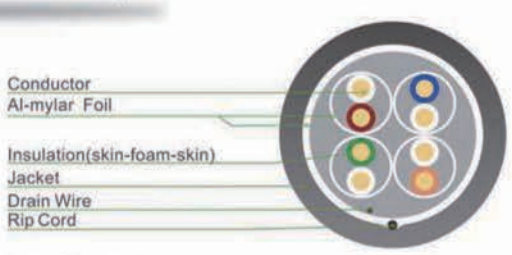
- IEC/ISO 61156-5
- ANSI/TIA568C.2
- ISO/IEC 11801

### Application

- Suitable for structured premises cabling.
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class EA applications.
- ISDN,Ethernet 10 Base-T,Fast Ethernet 100 Base-T, Gigabit Ethernet 1000Base-T ,10G Base-T.(IEEE 802.3).
- Token Ring4/16Mbit/s,TP-PMD/TP/DDI 125Mbit/s, ATM 155Mbit/s.(IEEE 802.5 ).

### Electrical Characteristics

- Impedance:4 - 100MHz 100±15 (ohms) .
  100 - 200MHz 100±22 (ohms).
  200 - 500MHz 100±32 (ohms).
- Max. Conductor DC Resistance 20˚C:8.7(ohms/100m).
- Resistance unbalance (%):max 2.5.
- Pair-to-Ground Capacitance Unbalance 330 (pF/100m).
- Transfer Impendance:Max10 mohms/m@100MHz.
- Installation temperature:0~50˚C.
- Operation temperature:-20~60˚C.




### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 23AWG |
| Insulation | PE(Skin-Foam-Skin) |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | blue x white, orange x white, green x white, brown x white |
| Individual pair shield | aluminum foil, providing 100% coverage, foil face out |
| Overall shield | Tinned copper braid |
| Drain wire | Tinned copper |

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D245-P | CMX | 8.0±0.3 |
| D245-C | CM | 8.0±0.3 |
| D245-R | CMR | 8.0±0.3 |
| D245-L | LSZH | 8.0±0.3 |
| D245-E | LDPE | 8.0±0.3 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | Propagation Delay(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ACR-F (min) | PSACR-F (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 1 | 20.0 | 2.1 | 570 | 45 | 74.3 | 72.3 | 67.8 | 64.8 |
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| 10 | 25.0 | 5.9 | 545 | 45 | 59.3 | 57.3 | 47.8 | 44.8 |
| 16 | 25.0 | 7.5 | 543 | 45 | 56.2 | 54.2 | 43.7 | 40.7 |
| 20 | 25.0 | 8.4 | 542 | 45 | 54.8 | 52.8 | 41.8 | 38.8 |
| 31.25 | 23.6 | 10.5 | 540 | 45 | 51.9 | 49.9 | 37.9 | 34.9 |
| 62.5 | 21.5 | 15.0 | 539 | 45 | 47.4 | 45.4 | 31.9 | 28.9 |
| 100 | 20.1 | 19.1 | 538 | 45 | 44.3 | 42.3 | 27.8 | 24.8 |
| 200 | 18.0 | 27.6 | 537 | 45 | 39.8 | 37.8 | 21.8 | 18.8 |
| 300 | 17.3 | 34.3 | 536 | 45 | 37.1 | 35.1 | 18.3 | 15.3 |
| 400 | 17.3 | 40.1 | 536 | 45 | 35.3 | 33.3 | 15.8 | 12.8 |
| 500 | 17.3 | 45.3 | 536 | 45 | 33.8 | 31.8 | 13.8 | 10.8 |

Note: The above transmission performance for the 100M, 20 ± 2˚C under the conditions tested.




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# STRUCTURE CABLING

## LAN CABLE

### U/FTP Shielded CAT6A Twisted Pair Installation Cable

### Standard

- IEC/ISO 61156-5
- ANSI/TIA568C.2
- ISO/IEC 11801

### Application

- Suitable for structured premises cabling.
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class EA applications.
- ISDN,Ethernet 10 Base-T,Fast Ethernet 100 Base-T, Gigabit Ethernet 1000Base-T ,10G Base-T.(IEEE 802.3).
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### Electrical Characteristics

- Impedance:4 - 100MHz 100±15 (ohms) .
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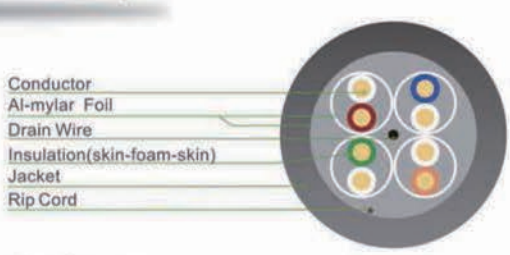
- Resistance unbalance (%):max 2.5.
- Pair-to-Ground Capacitance Unbalance 330 (pF/100m).
- Transfer Impendance:Max10 mohms/m@100MHz.
- Installation temperature:0~50˚C.
- Operation temperature:-20~60˚C.




### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 23AWG |
| Insulation | PE(Skin-Foam-Skin) |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | blue x white, orange x white, green x white, brown x white |
| Individual pair shield | aluminum foil, providing 100% coverage, foil face out |
| Overall shield | 0.40±0.005mm TC |
| Drain wire | None |

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D255-P | CMX | 8.0±0.3 |
| D255-C | CM | 8.0±0.3 |
| D255-R | CMR | 8.0±0.3 |
| D255-L | LSZH | 8.0±0.3 |
| D255-E | LDPE | 8.0±0.3 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | Propagation Delay(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ACR-F (min) | PSACR-F (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 1 | 20.0 | 2.1 | 570 | 45 | 74.3 | 72.3 | 67.8 | 64.8 |
| 4 | 23.0 | 3.8 | 552 | 45 | 65.3 | 63.3 | 55.8 | 52.8 |
| 10 | 25.0 | 5.9 | 545 | 45 | 59.3 | 57.3 | 47.8 | 44.8 |
| 16 | 25.0 | 7.5 | 543 | 45 | 56.2 | 54.2 | 43.7 | 40.7 |
| 20 | 25.0 | 8.4 | 542 | 45 | 54.8 | 52.8 | 41.8 | 38.8 |
| 31.25 | 23.6 | 10.5 | 540 | 45 | 51.9 | 49.9 | 37.9 | 34.9 |
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| 200 | 18.0 | 27.6 | 537 | 45 | 39.8 | 37.8 | 21.8 | 18.8 |
| 300 | 17.3 | 34.3 | 536 | 45 | 37.1 | 35.1 | 18.3 | 15.3 |
| 400 | 17.3 | 40.1 | 536 | 45 | 35.3 | 33.3 | 15.8 | 12.8 |
| 500 | 17.3 | 45.3 | 536 | 45 | 33.8 | 31.8 | 13.8 | 10.8 |

Note: The above transmission performance for the 100M, 20 ± 2˚C under the conditions tested.




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# STRUCTURE CABLING

## LAN CABLE

### F/UTP Shielded CAT6A Twisted Pair Installation Cable

### Standard

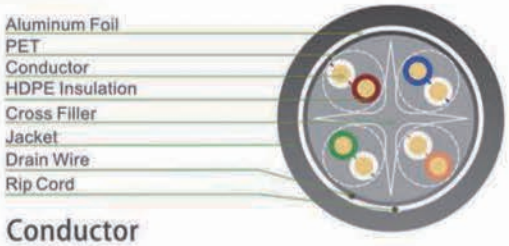
- IEC/ISO 61156-5
- ANSI/TIA568C.2
- ISO/IEC 11801

### Application

- Suitable for structured premises cabling.
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class EA applications.
- ISDN,Ethernet 10 Base-T,Fast Ethernet 100 Base-T, Gigabit Ethernet 1000Base-T ,10G Base-T.(IEEE 802.3).
- Token Ring4/16Mbit/s,TP-PMD/TP/DDI 125Mbit/s, ATM 155Mbit/s.(IEEE 802.5 ).

### Electrical Characteristics

- Impedance:4 - 100MHz 100±15 (ohms) .
  100 - 200MHz 100±22 (ohms).
  200 - 500MHz 100±32 (ohms).
- Max. Conductor DC Resistance 20˚C:8.4(ohms/100m).
- Resistance unbalance (%):max 2.5.
- Pair-to-Ground Capacitance Unbalance 330 (pF/100m).
- Transfer Impendance:Max10 mohms/m@100MHz.
- Installation temperature:0~50˚C.
- Operation temperature:-20~60˚C.




### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 23AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | blue x white, orange x white, green x white, brown x white |
| Individual pair shield | None |
| Overall shield | Aluminum foil, providing 100% coverage, foil face out. |
| Drain wire | Tinned copper |

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D265-P | CMX | 7.6±0.2 |
| D265-C | CM | 7.6±0.2 |
| D265-R | CMR | 7.6±0.2 |
| D265-L | LSZH | 7.6±0.2 |
| D265-E | LDPE | 7.6±0.2 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | DOP(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ACR-F (min) | PSACR-F (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 1 | 20.0 | 2.1 | 570 | 45 | 74.3 | 72.3 | 67.8 | 64.8 |
| 4 | 23.0 | 3.8 | 552 | 45 | 65.3 | 63.3 | 55.8 | 52.8 |
| 10 | 25.0 | 6.0 | 545.4 | 45 | 59.3 | 57.3 | 47.8 | 44.8 |
| 16 | 25.0 | 7.6 | 543 | 45 | 56.2 | 54.2 | 43.7 | 40.7 |
| 20 | 25.0 | 8.5 | 542.1 | 45 | 54.8 | 52.8 | 41.8 | 38.8 |
| 31.25 | 25.0 | 10.7 | 540.4 | 45 | 51.9 | 49.9 | 37.9 | 34.9 |
| 62.5 | 21.5 | 15.4 | 538.6 | 45 | 47.4 | 45.4 | 31.9 | 28.9 |
| 100 | 20.1 | 19.8 | 537.6 | 45 | 44.3 | 42.3 | 27.8 | 24.8 |
| 200 | 18.0 | 29.0 | 536.1 | 45 | 39.8 | 37.8 | 21.8 | 18.8 |
| 300 | 17.3 | 36.4 | 536.1 | 45 | 37.1 | 35.1 | 18.3 | 15.3 |
| 400 | 17.3 | 43.0 | 535.8 | 45 | 35.3 | 33.3 | 15.8 | 12.8 |
| 500 | 17.3 | 45.3 | 535.6 | 45 | 33.8 | 31.8 | 13.8 | 10.8 |

Note: The above transmission performance for the 100M, 20 ± 2˚C under the conditions tested.

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# STRUCTURE CABLING

## LAN CABLE

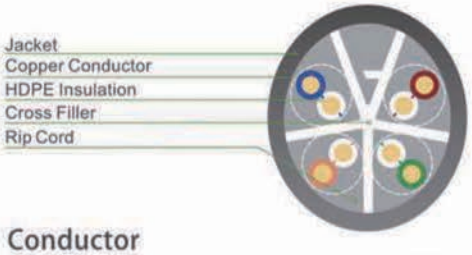
## U/UTP unshielded CAT6A Twisted PairInstallation Cable

### Application

- Meets or exceeds requirements of ANSI/TIA-568-C.2 Category 6 and ISO 11801 2nd Edition Class EA channel standards.
- Meets or exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 6A component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Third party tested to comply with ANSI/TIA/EIA-568-C.2.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability:Additional cable colors available.

### Electrical Characteristics

- Impedance:1-250MHz 100±15(Ohms).
- Rated Temperature: 75℃.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20℃: 8.4(Ohms/100m).
- Pair-to-Gruond Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.




### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 23AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown |
| Individual pair shield | None |
| Overall shield | None |
| Drain wire | None |

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D295-P | CMX | 7.5±0.2 |
| D295-C | CM | 7.5±0.2 |
| D295-R | CMR | 7.5±0.2 |
| D295-L | LSZH | 7.5±0.2 |
| D295-E | LDPE | 7.5±0.2 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | DOP(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ACR-F (min) | PSACR-F (min) | PS ANEXT (min) | PS AACR-F (min) |
|---|---|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) | (dB) | (dB/100m) |
| 1 | 20.0 | 2.1 | 570 | 45 | 74.3 | 72.3 | 67.8 | 64.8 | 67.0 | 67.0 |
| 4 | 23.0 | 3.8 | 552 | 45 | 65.3 | 63.3 | 55.8 | 52.8 | 67.0 | 66.2 |
| 10 | 25.0 | 6.0 | 545.4 | 45 | 59.3 | 57.3 | 47.8 | 44.8 | 67.0 | 60.1 |
| 16 | 25.0 | 7.6 | 543 | 45 | 56.2 | 54.2 | 43.7 | 40.7 | 67.0 | 52.2 |
| 20 | 25.0 | 8.5 | 542.1 | 45 | 54.8 | 52.8 | 41.8 | 38.8 | 67.0 | 48.3 |
| 31.25 | 25.0 | 10.7 | 540.4 | 45 | 51.9 | 49.9 | 37.9 | 34.9 | 67.0 | 42.3 |
| 62.5 | 21.5 | 15.4 | 538.6 | 45 | 47.4 | 45.4 | 31.9 | 28.9 | 65.6 | 38.2 |
| 100 | 20.1 | 19.8 | 537.6 | 45 | 44.3 | 42.3 | 27.8 | 24.8 | 62.5 | 32.2 |
| 200 | 18.0 | 29.0 | 536.1 | 45 | 39.8 | 37.8 | 21.8 | 18.8 | 58.0 | 30.2 |
| 300 | 17.3 | 36.4 | 536.1 | 45 | 37.1 | 35.1 | 18.3 | 15.3 | 55.3 | 28.7 |
| 400 | 17.3 | 43.0 | 535.8 | 45 | 35.3 | 33.3 | 15.8 | 12.8 | 53.5 | 26.2 |
| 500 | 17.3 | 45.3 | 535.6 | 45 | 33.8 | 31.8 | 13.8 | 10.8 | 52.0 | 24.2 |

Note: The above transmission performance for the 100M, 20 ± 2 C under the conditions tested.





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# STRUCTURE CABLING

## LAN CABLE

### F/UTP Shielded CAT6A Twisted Pair Installation Cable

### Standard

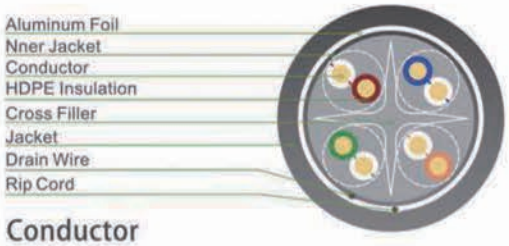
- IEC/ISO 61156-5
- ANSI/TIA568C.2
- ISO/IEC 11801

### Application

- Suitable for structured premises cabling.
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class EA applications.
- ISDN,Ethernet 10 Base-T,Fast Ethernet 100 Base-T, Gigabit Ethernet 1000Base-T ,10G Base-T.(IEEE 802.3).
- Token Ring4/16Mbit/s,TP-PMD/TP/DDI 125Mbit/s, ATM 155Mbit/s.(IEEE 802.5 ).

### Electrical Characteristics

- Impedance:4 - 100MHz 100±15 (ohms) .
  100 - 200MHz 100±22 (ohms).
  200 - 500MHz 100±32 (ohms).
- Max. Conductor DC Resistance 20˚C:8.4(ohms/100m).
- Resistance unbalance (%):max 2.5.
- Pair-to-Ground Capacitance Unbalance 330 (pF/100m).
- Transfer Impendance:Max10 mohms/m@100MHz.
- Installation temperature:0~50˚C.
- Operation temperature:-20~60˚C.




### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 23AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | blue x white, orange x white, green x white, brown x white |
| Individual pair shield | None |
| Overall shield | Aluminum foil, providing 100% coverage, foil face out. |
| Drain wire | Tinned copper |

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D305-P | CMX | 7.6±0.3 |
| D305-C | CM | 7.6±0.3 |
| D305-R | CMR | 7.6±0.3 |
| D305-L | LSZH | 7.6±0.3 |
| D305-E | LDPE | 7.6±0.3 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | DOP(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ACR-F (min) | PSACR-F (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 1 | 20.0 | 2.1 | 570 | 45 | 74.3 | 72.3 | 67.8 | 64.8 |
| 4 | 23.0 | 3.8 | 552 | 45 | 65.3 | 63.3 | 55.8 | 52.8 |
| 10 | 25.0 | 6.0 | 545.4 | 45 | 59.3 | 57.3 | 47.8 | 44.8 |
| 16 | 25.0 | 7.6 | 543 | 45 | 56.2 | 54.2 | 43.7 | 40.7 |
| 20 | 25.0 | 8.5 | 542.1 | 45 | 54.8 | 52.8 | 41.8 | 38.8 |
| 31.25 | 25.0 | 10.7 | 540.4 | 45 | 51.9 | 49.9 | 37.9 | 34.9 |
| 62.5 | 21.5 | 15.4 | 538.6 | 45 | 47.4 | 45.4 | 31.9 | 28.9 |
| 100 | 20.1 | 19.8 | 537.6 | 45 | 44.3 | 42.3 | 27.8 | 24.8 |
| 200 | 18.0 | 29.0 | 536.1 | 45 | 39.8 | 37.8 | 21.8 | 18.8 |
| 300 | 17.3 | 36.4 | 536.1 | 45 | 37.1 | 35.1 | 18.3 | 15.3 |
| 400 | 17.3 | 43.0 | 535.8 | 45 | 35.3 | 33.3 | 15.8 | 12.8 |
| 500 | 17.3 | 45.3 | 535.6 | 45 | 33.8 | 31.8 | 13.8 | 10.8 |

Note: The above transmission performance for the 100M, 20 ± 2˚C under the conditions tested.

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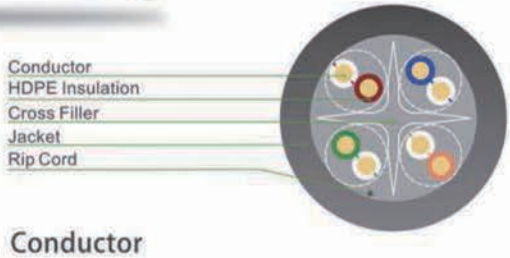
# STRUCTURE CABLING

## LAN CABLE

### U/UTP unshielded CAT6 Twisted PairInstallation Cable

### Application

- Meets or exceeds requirements of ANSI/TIA-568-C.2 Category 6 and ISO 11801 2nd Edition Class E channel standards.
- Meets or exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 6 component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Third party tested to comply with ANSI/TIA/EIA-568-C.2.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.




### Electrical Characteristics

- Impedance:1-250MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 8.4(Ohms/100m).
- Pair-to-Gruond Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 23AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown |
| Individual pair shield | None |
| Overall shield | None |
| Drain wire | None |

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D165-P | CMX | 6.4±0.2 |
| D165-C | CM | 6.4±0.2 |
| D165-R | CMR | 6.4±0.2 |
| D165-L | LSZH | 6.4±0.2 |
| D165-E | LDPE | 6.4±0.2 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | DOP(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ACR-F (min) | PSACR-F (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 1 | 20.0 | 2 | 570 | 45 | 74 | 72 | 67.8 | 64.8 |
| 4 | 23.0 | 3.8 | 552 | 45 | 65 | 63 | 55.7 | 52.7 |
| 10 | 25.0 | 6.0 | 545 | 45 | 59 | 57 | 47.8 | 44.8 |
| 16 | 25.0 | 7.6 | 543 | 45 | 56 | 54 | 43.7 | 40.7 |
| 20 | 25.0 | 8.5 | 542 | 45 | 55 | 53 | 41.7 | 38.7 |
| 31.25 | 23.6 | 10.7 | 540 | 45 | 52 | 50 | 37.9 | 34.9 |
| 62.5 | 21.5 | 15.4 | 538 | 45 | 47 | 45 | 31.8 | 28.8 |
| 100 | 20.1 | 19.8 | 537 | 45 | 44.3 | 42.3 | 27.8 | 24.8 |
| 200 | 18.0 | 29.0 | 536 | 45 | 39.7 | 37.7 | 21.7 | 18.7 |
| 250 | 17.3 | 32.8 | 535 | 45 | 38 | 36 | 19.8 | 16.8 |

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.

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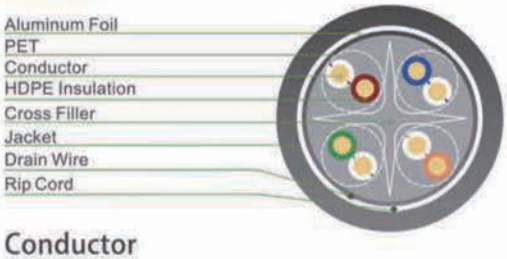
# STRUCTURE CABLING

## LAN CABLE

### F/UTP shielded CAT6 Twisted Pair Installation Cable




### Application

- Exceeds ANSI/TIA-568-C.2 and ISO 11801 2nd Edition Class E Category 6 channel standards.
- Exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 6 component standards.
- Meets IEEE 802.3af and IEEE 802.3at for PoE applications.
- Foil shield reduces ingress of EMI interference to ensure cable performance at high frequency levels.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.

### Electrical Characteristics

- Impedance:1-250MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 8.4(Ohms/100m).
- Pair-to-Gruond Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 23AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown |
| Individual pair shield | None |
| Overall shield | Aluminum foil, providing 100% coverage, foil face out. |
| Drain wire | Tinned copper |

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D175-P | CMX | 7.6±0.2 |
| D175-C | CM | 7.6±0.2 |
| D175-R | CMR | 7.6±0.2 |
| D175-L | LSZH | 7.6±0.2 |
| D175-E | LDPE | 7.6±0.2 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | DOP(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ACR-F (min) | PSACR-F (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 1 | 20.0 | 2 | 570 | 45 | 74 | 72 | 67.8 | 64.8 |
| 4 | 23.0 | 3.8 | 552 | 45 | 65 | 63 | 55.7 | 52.7 |
| 10 | 25.0 | 6.0 | 545 | 45 | 59 | 57 | 47.8 | 44.8 |
| 16 | 25.0 | 7.6 | 543 | 45 | 56 | 54 | 43.7 | 40.7 |
| 20 | 25. | 8.5 | 542 | 45 | 55 | 53 | 41.7 | 38.7 |
| 31.25 | 23.6 | 10.7 | 540 | 45 | 52 | 50 | 37.9 | 34.9 |
| 62.5 | 21.5 | 15.4 | 538 | 45 | 47 | 45 | 31.8 | 28.8 |
| 100 | 20.1 | 19.8 | 537 | 45 | 44.3 | 42.3 | 27.8 | 24.8 |
| 200 | 18.0 | 29.0 | 536 | 45 | 39.7 | 37.7 | 21.7 | 18.7 |
| 250 | 17.3 | 32.8 | 535 | 45 | 38 | 36 | 19.8 | 16.8 |

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.





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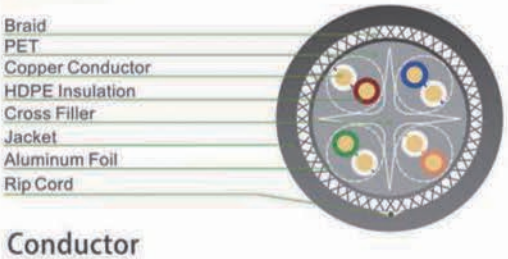
# STRUCTURE CABLING

## LAN CABLE

### SF/UTP double fully shielded CAT6 Twisted Pair Installation Cable




### Application

- Exceeds ANSI/TIA-568-C.2 and ISO 11801 2nd Edition Class E Category 6 channel standards.
- Exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 6 component standards.
- Meets IEEE 802.3af and IEEE 802.3at for PoE applications.
- Foil shield reduces ingress of EMI interference to ensure cable performance at high frequency levels.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.

### Electrical Characteristics

- Impedance:1-250MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 8.4(Ohms/100m).
- Pair-to-Gruond Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 23AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown |
| Individual pair shield | None |
| Overall shield | Aluminum foil, providing 100% coverage, foil face out. |
| Drain wire | None |

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D185-P | CMX | 8.1±0.2 |
| D185-C | CM | 8.1±0.2 |
| D185-R | CMR | 8.1±0.2 |
| D185-L | LSZH | 8.1±0.2 |
| D185-E | LDPE | 8.1±0.2 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | DOP(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ACR-F (min) | PSACR-F (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 1 | 20 | 2.2 | 590 | 62 | 74.3 | 72.3 | 67.8 | 64.8 |
| 4 | 23 | 4.1 | 572 | 62 | 65.2 | 63.2 | 55.7 | 52.7 |
| 10 | 25 | 6.5 | 565 | 62 | 59.3 | 57.3 | 47.8 | 44.8 |
| 16 | 25 | 8.2 | 563 | 62 | 56.2 | 54.2 | 43.7 | 40.7 |
| 20 | 25 | 9.3 | 562 | 62 | 54.7 | 52.7 | 41.7 | 38.7 |
| 31.25 | 23.6 | 11.5 | 560 | 62 | 51.8 | 49.8 | 37.9 | 34.9 |
| 62.5 | 21.5 | 16.2 | 558 | 62 | 47.3 | 45.3 | 31.8 | 28.8 |
| 100 | 20.1 | 20.4 | 557 | 62 | 44.3 | 42.3 | 27.8 | 24.8 |
| 200 | 18 | 29.2 | 556 | 62 | 39.7 | 37.7 | 21.7 | 18.7 |
| 250 | 17.3 | 33.8 | 555 | 62 | 38.3 | 36.3 | 19.8 | 16.8 |

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.





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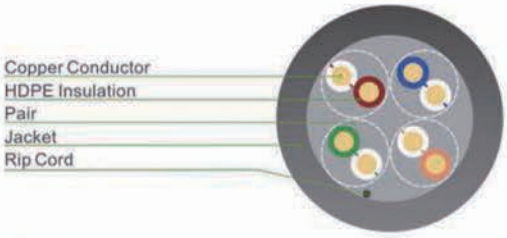
# STRUCTURE CABLING

## LAN CABLE

### U/UTP unshielded CAT5e Twisted Pair Installation Cable

### Application

- Meets or exceeds requirements of ANSI/TIA-568-C.2 Category 5e and ISO 11801 2nd Edition Class D channel standards.
- Meets or exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 5e component standards.
- Third party tested to Category 5e channel compliance.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for
- PoE applications.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.




### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 24AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown |
| Individual pair shield | None |
| Overall shield | None |
| Drain wire | None |

### Electrical Characteristics

- Impedance:1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 9.5(Ohms/100m).
- Pair-to-Gruond Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D135-P | CMX | 5.1±0.2 |
| D135-C | CM | 5.1±0.2 |
| D135-R | CMR | 5.1±0.2 |
| D135-L | LSZH | 5.1±0.2 |
| D135-E | LDPE | 5.1±0.2 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | DOP(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ACR-F (min) | PSACR-F (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 1 | 20.0 | 2.2 | 570 | 45 | 65 | 62 | 61 | 61 |
| 4 | 23.0 | 4.2 | 552 | 45 | 56 | 53 | 48 | 48 |
| 10 | 25.0 | 6.5 | 545 | 45 | 50 | 47 | 41 | 41 |
| 16 | 25.0 | 8.4 | 543 | 45 | 47 | 44 | 36 | 36 |
| 20 | 25.0 | 9.3 | 542 | 45 | 45 | 42 | 34 | 34 |
| 31.25 | 23.6 | 11.6 | 540 | 45 | 42 | 39 | 31 | 31 |
| 62.5 | 21.5 | 17.0 | 538 | 45 | 38 | 35 | 25 | 25 |
| 100 | 20.1 | 22.0 | 537 | 45 | 35 | 32 | 21 | 21 |

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.

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# STRUCTURE CABLING

## LAN CABLE

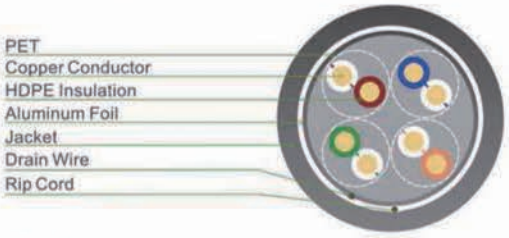
### F/UTP shielded CAT5e Twisted Pair Installation Cable

### Application

- Exceeds ANSI/TIA-568-C.2 and ISO 11801 2nd Edition Class D Category 5e channel standards.
- Exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 5e component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Foil shield reduces ingress of EMI interference to ensure cable performance at high frequency levels.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.

### Electrical Characteristics

- Impedance:1-100MHz 100±15(Ohms).
- Rated Temperature: 75℃.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20℃: 9.5(Ohms/100m).
- Pair-to-Gruond Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.




### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 24AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown |
| Individual pair shield | None |
| Overall shield | Aluminum foil, providing 100% coverage, foil face out. |
| Drain wire | None |

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D145-P | CMX | 6.3±0.2 |
| D145-C | CM | 6.3±0.2 |
| D145-R | CMR | 6.3±0.2 |
| D145-L | LSZH | 6.3±0.2 |
| D145-E | LDPE | 6.3±0.2 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | DOP(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ACR-F (min) | PSACR-F (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 1 | 20.0 | 2.2 | 570 | 45 | 65 | 62 | 61 | 61 |
| 4 | 23.0 | 4.2 | 552 | 45 | 56 | 53 | 48 | 48 |
| 10 | 25.0 | 6.5 | 545 | 45 | 50 | 47 | 41 | 41 |
| 16 | 25.0 | 8.4 | 543 | 45 | 47 | 44 | 36 | 36 |
| 20 | 25.0 | 9.3 | 542 | 45 | 45 | 42 | 34 | 34 |
| 31.25 | 23.6 | 11.6 | 540 | 45 | 42 | 39 | 31 | 31 |
| 62.5 | 21.5 | 17.0 | 538 | 45 | 38 | 35 | 25 | 25 |
| 100 | 20.1 | 22.0 | 537 | 45 | 35 | 32 | 21 | 21 |

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.





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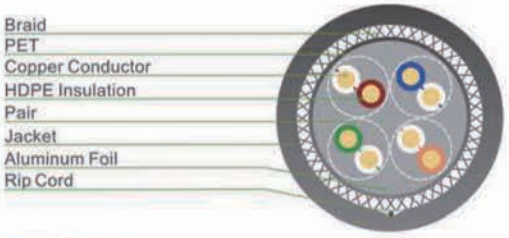
# STRUCTURE CABLING

## LAN CABLE

### SF/UTP double fully shielded CAT5e Twisted Pair Installation Cable

### Application

- Exceeds ANSI/TIA-568-C.2 and ISO 11801 2nd Edition Class D Category 5e channel standards.
- Exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 5e component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Foil shield reduces ingress of EMI interference to ensure cable performance at high frequency levels.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.




### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 24AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown |
| Individual pair shield | None |
| Overall shield | Aluminum foil, providing 100% coverage, foil face out. |
| Drain wire | None |

### Electrical Characteristics

- Impedance:1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 9.5(Ohms/100m).
- Pair-to-Gruond Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D155-P | CMX | 6.5±0.2 |
| D155-C | CM | 6.5±0.2 |
| D155-R | CMR | 6.5±0.2 |
| D155-L | LSZH | 6.5±0.2 |
| D155-E | LDPE | 6.5±0.2 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | DOP(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ACR-F (min) | PSACR-F (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 1 | 20.0 | 2.2 | 570 | 45 | 65 | 62 | 61 | 61 |
| 4 | 23.0 | 4.2 | 552 | 45 | 56 | 53 | 48 | 48 |
| 10 | 25.0 | 6.5 | 545 | 45 | 50 | 47 | 41 | 41 |
| 16 | 25.0 | 8.4 | 543 | 45 | 47 | 44 | 36 | 36 |
| 20 | 25.0 | 9.3 | 542 | 45 | 45 | 42 | 34 | 34 |
| 31.25 | 23.6 | 11.6 | 540 | 45 | 42 | 39 | 31 | 31 |
| 62.5 | 21.5 | 17.0 | 538 | 45 | 38 | 35 | 25 | 25 |
| 100 | 20.1 | 22.0 | 537 | 45 | 35 | 32 | 21 | 21 |

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.





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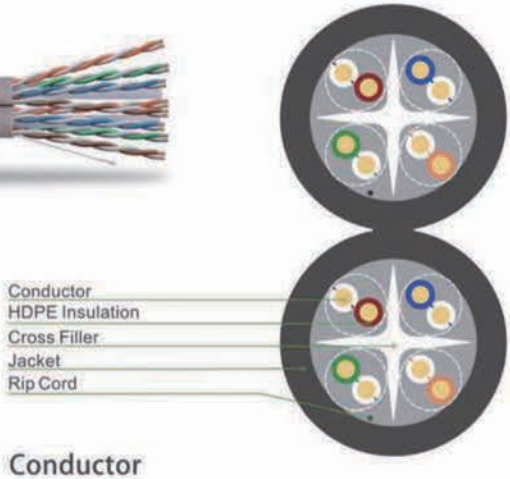
# STRUCTURE CABLING

## LAN CABLE

### U/UTP unshielded CAT6 Twisted Pair Installation Cable




### Application

- Meets or exceeds requirements of ANSI/TIA-568-C.2 Category 6 and ISO 11801 2nd Edition Class E channel standards.
- Meets or exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 6 component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Third party tested to comply with ANSI/TIA/EIA-568-C.2.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.

### Electrical Characteristics

- Impedance:1-250MHz 100±15(Ohms).
- Rated Temperature: 75˚C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20˚C: 8.4(Ohms/100m).
- Pair-to-Gruond Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 23AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 2x8, twisted in 2x 4 pairs |
| Color code | White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown |
| Individual pair shield | None |
| Overall shield | None |
| Drain wire | None |

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D215-P | CMX | (6.6+6.6)+/-0.2 |
| D215-C | CM | (6.6+6.6)+/-0.2 |
| D215-R | CMR | (6.6+6.6)+/-0.2 |
| D215-L | LSZH | (6.6+6.6)+/-0.2 |
| D215-E | LDPE | (6.6+6.6)+/-0.2 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | DOP(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ACR-F (min) | PSACR-F (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 1 | 20.0 | 2 | 570 | 45 | 74 | 72 | 67.8 | 64.8 |
| 4 | 23.0 | 3.8 | 552 | 45 | 65 | 63 | 55.7 | 52.7 |
| 10 | 25.0 | 6.0 | 545 | 45 | 59 | 57 | 47.8 | 44.8 |
| 16 | 25.0 | 7.6 | 543 | 45 | 56 | 54 | 43.7 | 40.7 |
| 20 | 25. | 8.5 | 542 | 45 | 55 | 53 | 41.7 | 38.7 |
| 31.25 | 23.6 | 10.7 | 540 | 45 | 52 | 50 | 37.9 | 34.9 |
| 62.5 | 21.5 | 15.4 | 538 | 45 | 47 | 45 | 31.8 | 28.8 |
| 100 | 20.1 | 19.8 | 537 | 45 | 44.3 | 42.3 | 27.8 | 24.8 |
| 200 | 18.0 | 29.0 | 536 | 45 | 39.7 | 37.7 | 21.7 | 18.7 |
| 250 | 17.3 | 32.8 | 535 | 45 | 38 | 36 | 19.8 | 16.8 |

Note: The above transmission performance for the 100M, 20 ± 2˚C under the conditions tested.





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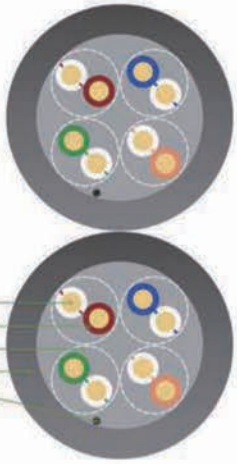
# STRUCTURE CABLING

## LAN CABLE

### U/UTP unshielded CAT5e Twisted Pair Installation Cable




### Application

- Meets or exceeds requirements of ANSI/TIA-568-C.2 Category 5e and ISO 11801 2nd Edition Class D channel standards.
- Meets or exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 5e component standards.
- Third party tested to Category 5e channel compliance.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for
- PoE applications.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.
- Patent products:CN200920124768. 4.

### Electrical Characteristics

- Impedance:1-100MHz 100±15(Ohms).
- Rated Temperature: 75℃.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20℃: 9.5(Ohms/100m).
- Pair-to-Gruond Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 24AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 2x8, twisted in 2x4 pairs |
| Color code | White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown |
| Individual pair shield | None |
| Overall shield | None |
| Drain wire | None |

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D205-P | CMX | (5.2+5.2)+/-0.3 |
| D205-C | CM | (5.2+5.2)+/-0.3 |
| D205-R | CMR | (5.2+5.2)+/-0.3 |
| D205-L | LSZH | (5.2+5.2)+/-0.3 |
| D205-E | LDPE | (5.2+5.2)+/-0.3 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | DOP(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ACR-F (min) | PSACR-F (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 1 | 20.0 | 2.2 | 570 | 45 | 65 | 62 | 61 | 61 |
| 4 | 23.0 | 4.2 | 552 | 45 | 56 | 53 | 48 | 48 |
| 10 | 25.0 | 6.5 | 545 | 45 | 50 | 47 | 41 | 41 |
| 16 | 25.0 | 8.4 | 543 | 45 | 47 | 44 | 36 | 36 |
| 20 | 25.0 | 9.3 | 542 | 45 | 45 | 42 | 34 | 34 |
| 31.25 | 23.6 | 11.6 | 540 | 45 | 42 | 39 | 31 | 31 |
| 62.5 | 21.5 | 17.0 | 538 | 45 | 38 | 35 | 25 | 25 |
| 100 | 20.1 | 22.0 | 537 | 45 | 35 | 32 | 21 | 21 |

Note: The above transmission performance for the 100M, 20 ± 2℃ under the conditions tested.





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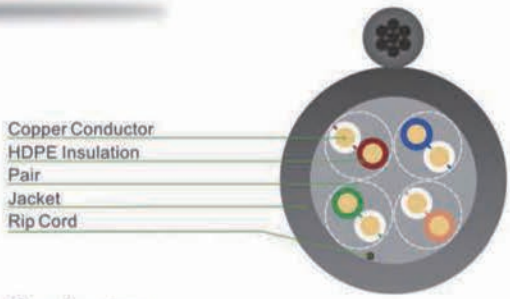
# STRUCTURE CABLING

## LAN CABLE

### U/UTP steel wire support unshielded CAT5e Twisted Pair Installation Cable




### Application

- Meets or exceeds requirements of ANSI/TIA-568-C.2 Category 5e and ISO 11801 2nd Edition Class D channel standards.
- Meets or exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 5e component standards.
- Third party tested to Category 5e channel compliance.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for
- PoE applications.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.

### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 24AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown |
| Individual pair shield | None |
| Overall shield | None |
| Drain wire | None |

### Electrical Characteristics

- Impedance:1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 9.5(Ohms/100m).
- Pair-to-Gruond Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D225-E | LDPE | (5.1+2.3)±0.3 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | DOP(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ACR-F (min) | PSACR-F (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 1 | 20.0 | 2.2 | 570 | 45 | 65 | 62 | 61 | 61 |
| 4 | 23.0 | 4.2 | 552 | 45 | 56 | 53 | 48 | 48 |
| 10 | 25.0 | 6.5 | 545 | 45 | 50 | 47 | 41 | 41 |
| 16 | 25.0 | 8.4 | 543 | 45 | 47 | 44 | 36 | 36 |
| 20 | 25.0 | 9.3 | 542 | 45 | 45 | 42 | 34 | 34 |
| 31.25 | 23.6 | 11.6 | 540 | 45 | 42 | 39 | 31 | 31 |
| 62.5 | 21.5 | 17.0 | 538 | 45 | 38 | 35 | 25 | 25 |
| 100 | 20.1 | 22.0 | 537 | 45 | 35 | 32 | 21 | 21 |

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.

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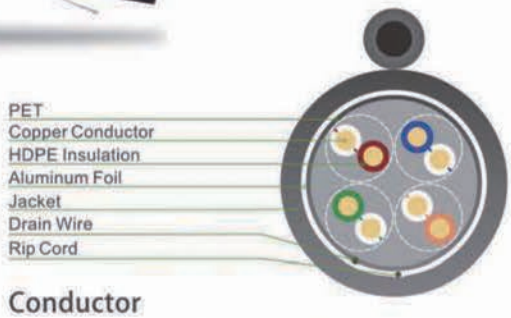
# STRUCTURE CABLING

## LAN CABLE

### F/UTP steel wire support shielded CAT5e Twisted Pair Installation Cable

### Application

- Exceeds ANSI/TIA-568-C.2 and ISO 11801 2nd Edition Class D Category 5e channel standards.
- Exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 5e component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Foil shield reduces ingress of EMI interference to ensure cable performance at high frequency levels.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.




### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 24AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown |
| Individual pair shield | None |
| Overall shield | Aluminum foil, providing 100% coverage, foil face out. |
| Drain wire | None |

### Electrical Characteristics

- Impedance:1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 9.5(Ohms/100m).
- Pair-to-Gruond Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D235-P | CMX | (6.3+2.3)±0.3 |
| D235-C | CM | (6.3+2.3)±0.3 |
| D235-R | CMR | (6.3+2.3)±0.3 |
| D235-L | LSZH | (6.3+2.3)±0.3 |
| D235-E | LDPE | (6.3+2.3)±0.3 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | DOP(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ACR-F (min) | PSACR-F (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 1 | 20.0 | 2.2 | 570 | 45 | 65 | 62 | 61 | 61 |
| 4 | 23.0 | 4.2 | 552 | 45 | 56 | 53 | 48 | 48 |
| 10 | 25.0 | 6.5 | 545 | 45 | 50 | 47 | 41 | 41 |
| 16 | 25.0 | 8.4 | 543 | 45 | 47 | 44 | 36 | 36 |
| 20 | 25.0 | 9.3 | 542 | 45 | 45 | 42 | 34 | 34 |
| 31.25 | 23.6 | 11.6 | 540 | 45 | 42 | 39 | 31 | 31 |
| 62.5 | 21.5 | 17.0 | 538 | 45 | 38 | 35 | 25 | 25 |
| 100 | 20.1 | 22.0 | 537 | 45 | 35 | 32 | 21 | 21 |

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.


page 072

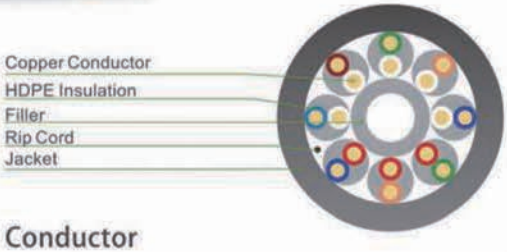
# STRUCTURE CABLING

## LAN CABLE

### U/UTP unshielded CAT5e Twisted 8 Pair Installation Cable

### Application

- Meets or exceeds requirements of ANSI/TIA-568-C.2 Category 5e and ISO 11801 2nd Edition Class D channel standards.
- Meets or exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 5e component standards.
- Third party tested to Category 5e channel compliance.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for
- PoE applications.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.
- Patent products:CN201020293718. 1.




### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 24AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 16, twisted in 8 pairs |
| Color code | White/Blue,White/Orange,White/Green, White/Brown,White/Grey Red/Blue,Red/Orange,Red/Green |
| Individual pair shield | None |
| Overall shield | None |
| Drain wire | None |

### Electrical Characteristics

- Impedance:1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 9.5(Ohms/100m).
- Pair-to-Gruond Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D105-8-P | CMX | 8.1±0.2 |
| D105-8-C | CM | 8.1±0.2 |
| D105-8-R | CMR | 8.1±0.2 |
| D105-8-L | LSZH | 8.1±0.2 |
| D105-8-E | LDPE | 8.1±0.2 |

### Nominal Transmission Characteristics

| Frequency | RL (min) | IL(max) | DOP(max) | Delay Skew (max) | NEXT (min) | PSNEXT (min) | ACR-F (min) | PSACR-F (min) |
|---|---|---|---|---|---|---|---|---|
| (MH)z | (dB) | (dB/100m) | (ns/100m) | (ns/100m) | (dB) | (dB) | (dB/100m) | (dB/100m) |
| 1 | 20.0 | 2.2 | 570 | 45 | 65 | 62 | 61 | 61 |
| 4 | 23.0 | 4.2 | 552 | 45 | 56 | 53 | 48 | 48 |
| 10 | 25.0 | 6.5 | 545 | 45 | 50 | 47 | 41 | 41 |
| 16 | 25.0 | 8.4 | 543 | 45 | 47 | 44 | 36 | 36 |
| 20 | 25.0 | 9.3 | 542 | 45 | 45 | 42 | 34 | 34 |
| 31.25 | 23.6 | 11.6 | 540 | 45 | 42 | 39 | 31 | 31 |
| 62.5 | 21.5 | 17.0 | 538 | 45 | 38 | 35 | 25 | 25 |
| 100 | 20.1 | 22.0 | 537 | 45 | 35 | 32 | 21 | 21 |

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.




page 073

# STRUCTURE CABLING

## LAN CABLE

### U/UTP unshielded CAT3 Twisted 25/50/100 Pair Installation Cable

#### Application

- Exceeds requirements of ANSI/TIA-568-C.2 Category 3 and ISO 11801 Class C channel standards.
- Exceeds the requirements of ANSI/TIA-568-C.2 Category 3 component standards.
- Descending cable length markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.
- Patent products:CN200920124769. 9.

#### Mechanical Characteristics

- Cable under the minimum tension≥400N.
- Conductor elongation:≥15%.
- Jacket before Aging
  Tensile Strength≥13. 5Mpa
  Elongation ≥150%.
- Jacket After Aging
  Tensile Strength ≥12. 5Mpa
  Elongation ≥125%.

#### Electrical Characteristics

- Impedance:1-16MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 111(Ohms).
- Pair-to-Gruond Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

#### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D105-25-P | CMX | 12.5±1.0 |
| D105-25-L | LSZH | 12.5±1.0 |
| D105-25-E | LDPE | 12.5±1.0 |
| D105-50-P | CMX | 17.2±1.0 |
| D105-50-L | LSZH | 17.2±1.0 |
| D105-50-E | LDPE | 17.2±1.0 |
| D105-100-P | CMX | 23.5±1.0 |
| D105-100-L | LSZH | 23.5±1.0 |
| D105-100-E | LDPE | 23.5±1.0 |

### U/UTP unshielded CAT5 Twisted 25/50/100 Pair Installation Cable

#### Application

- Exceeds requirements and ISO 11801 Class D channel standards.
- Exceeds the requirements and IEC 61156-5 Category 5 component standards.
- Descending cable length markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Packaged 305m (1,000 ft.) on a reel.
- Color Availability: Additional cable colors available.
- Patent products:CN200920124769. 9.

#### Mechanical Characteristics

- Cable under the minimum tension≥400N.
- Conductor elongation:≥15%.
- Jacket before Aging
  Tensile Strength≥13. 5Mpa
  Elongation ≥150%.
- Jacket After Aging
  Tensile Strength ≥12. 5Mpa
  Elongation ≥125%.

#### Electrical Characteristics

- Impedance:1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 111(Ohms).
- Pair-to-Gruond Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

#### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D105-25A-P | CMX | 12.5±1.0 |
| D105-25A-L | LSZH | 12.5±1.0 |
| D105-25A-E | LDPE | 12.5±1.0 |
| D105-50A-P | CMX | 17.2±1.0 |
| D105-50A-L | LSZH | 17.2±1.0 |
| D105-50A-E | LDPE | 17.2±1.0 |
| D105-100A-P | CMX | 23.5±1.0 |
| D105-100A-L | LSZH | 23.5±1.0 |
| D105-100A-E | LDPE | 23.5±1.0 |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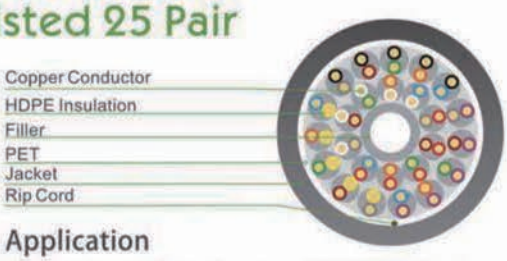
# STRUCTURE CABLING

## LAN CABLE

### U/UTP unshielded CAT5e Twisted 25 Pair Installation Cable




#### Electrical Characteristics

- Impedance:1-100MHz 100±15(Ohms).
- Rated Temperature: 75℃.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20℃: 111(Ohms).
- Pair-to-Gruond Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

#### Mechanical Characteristics

- Cable under the minimum tension≥400N.
- Conductor elongation:≥15%.
- Jacket before Aging
  Tensile Strength≥13. 5Mpa
  Elongation ≥150%.
- Jacket After Aging
  Tensile Strength ≥12. 5Mpa
  Elongation ≥125%.

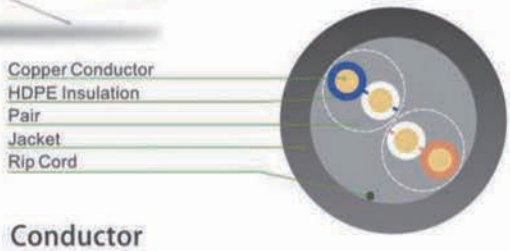
#### Application

- Meets or exceeds requirements of ANSI/TIA-568-C.2 Category 5e and ISO 11801 2nd Edition Class D channel standards.
- Meets or exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 5e component standards.
- Third party tested to Category 5e channel compliance.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for
- PoE applications.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.
- Patent products:CN201020093721. 3.

#### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D105-25A-P | CMX | 12.5±1.0 |
| D105-25A-L | LSZH | 12.5±1.0 |
| D105-25A-E | LDPE | 12.5±1.0 |

### U/UTP unshielded CAT3 Twisted 2 Pair Installation Cable




#### Electrical Characteristics

- Impedance:1-16MHz 100±15(Ohms).
- Rated Temperature: 75℃.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20℃: 111(Ohms).
- Pair-to-Gruond Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

#### Mechanical Characteristics

- Cable under the minimum tension≥400N.
- Conductor elongation:≥15%.
- Jacket before Aging
  Tensile Strength≥13. 5Mpa
  Elongation ≥150%.
- Jacket After Aging
  Tensile Strength ≥12. 5Mpa
  Elongation ≥125%.

#### Conductor

| | |
|---|---|
| Conductor | Solid Bare Copper 24AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 4, twisted in 2 pairs |
| Color code | White-Blue/Blue,White-Orange/Orange |
| Individual pair shield | None |
| Overall shield | None |
| Drain wire | None |

#### Order information

| Item | Outer Jacket | Overall diameter(mm) |
|---|---|---|
| D106-P | CMX | 4.3±0.2 |

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# STRUCTURE CABLING

## PATCH CORD

### S/FTP double fully shielded twisted 4 pairs category 6A patch cord


### Standard

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568B Category 6A and ISO/EIC specifications.
- Independently tested and verified intertek(ETL).
- Ideal for Data center architectural requirements.
- Stranded cable for maximum flexibility.
- Available with different plug mold.
- Available with different color of cable.
- Available with different length.

### Conductor

| | |
|---|---|
| Conductor | standed bare copper 26AWG |
| Insulation | PE(Foam-Skin) |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | blue x white, orange x white, green x white, brown x white |
| Individual pair shield | aluminum foil, providing 100% coverage, foil face out |
| Overall shield | Tinned copper braid |
| Drain wire | None |

### Nominal Transmission Characteristics

| Res. | Length | Prop. Delay | Delay Skew | Freq. | Insertion Loss | NEXT | RL | ACR-N | ACR-F | PS NEXT | PS ACR-N | PS ACR-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ω | Max. | ns | ns | MHz | dB | dB | dB | dB | dB | dB | dB | dB |
| i | 100m | 550 | 50 | 1 | 3 | 65.0 | 19.0 | 62.0 | 63.3 | 62.0 | 59.0 | 60.3 |
| | | | | 4 | 4.2 | 63.0 | 19.0 | 58.9 | 51.2 | 60.5 | 56.4 | 48.2 |
| | | | | 8 | 5.8 | 58.2 | 19.0 | 52.4 | 45.2 | 55.6 | 49.8 | 42.2 |
| | | | | 10 | 6.5 | 56.6 | 19.0 | 50.1 | 43.3 | 54.0 | 47.5 | 40.3 |
| | | | | 16 | 8.2 | 53.2 | 18.0 | 45.0 | 39.2 | 50.6 | 42.4 | 36.2 |
| | | | | 20 | 9.2 | 51.6 | 17.5 | 42.5 | 37.2 | 49.0 | 39.8 | 34.2 |
| | | | | 25 | 10.2 | 50.0 | 17.0 | 39.8 | 35.3 | 47.3 | 37.1 | 32.3 |
| | | | | 31.25 | 11.5 | 48.4 | 16.5 | 36.9 | 33.4 | 45.7 | 34.2 | 30.4 |
| | | | | 62.5 | 16.4 | 43.4 | 14.0 | 27.0 | 27.3 | 40.6 | 24.2 | 24.3 |
| | | | | 100 | 20.9 | 39.9 | 12.0 | 19.0 | 23.3 | 37.1 | 16.2 | 20.3 |
| | | | | 200 | 30.1 | 34.8 | 9.0 | 4.7 | 17.2 | 31.9 | 1.8 | 14.2 |
| | | | | 250 | 33.9 | 33.1 | 8.0 | -0.8 | 15.3 | 30.2 | -3.7 | 12.3 |
| | | | | 350 | 40.6 | 30.3 | 6.6 | -10.3 | 12.4 | 27.3 | -13.3 | 9.4 |
| | | | | 500 | 49.3 | 26.1 | 6.0 | -23.2 | 9.3 | 23.2 | -26.1 | 6.3 |




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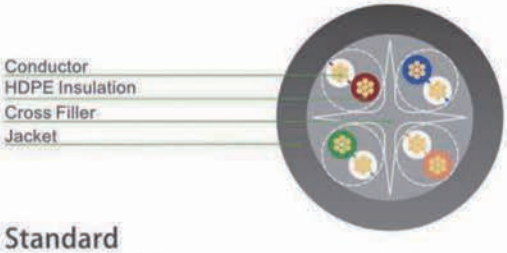
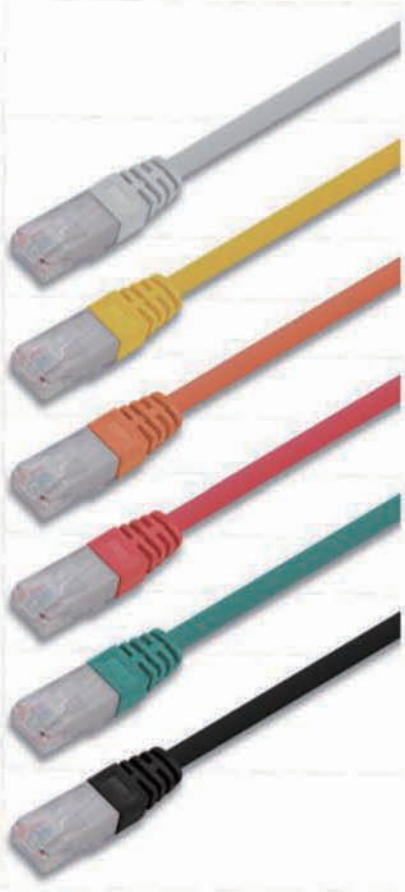
# STRUCTURE CABLING

## PATCH CORD

### U/UTP unshielded twisted 4 pairs category 6A patch cord



### Standard

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568B Category 6 and ISO/EIC specifications.
- Independently tested and verified intertek(ETL).
- Ideal for Data center architectural requirements.
- Stranded cable for maximum flexibility.
- Available with different plug mold.
- Available with different color of cable.
- Available with different length.

### Conductor

| | |
|---|---|
| Conductor | Stranded Bare Copper 24AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown |
| Individual pair shield | None |
| Overall shield | None |
| Drain wire | None |

### Nominal Transmission Characteristics

| Res. | Length | Prop. Delay | Delay Skew | Freq. | Insertion Loss | NEXT | RL | ACR-N | ACR-F | PS NEXT | PS ACR-N | PS ACR-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ω | Max. | ns | ns | MHz | dB | dB | dB | dB | dB | dB | dB | dB |
| i | 100m | 550 | 50 | 1 | 3 | 65.0 | 19.0 | 62.0 | 63.3 | 62.0 | 59.0 | 60.3 |
| | | | | 4 | 4.2 | 63.0 | 19.0 | 58.9 | 51.2 | 60.5 | 56.4 | 48.2 |
| | | | | 8 | 5.8 | 58.2 | 19.0 | 52.4 | 45.2 | 55.6 | 49.8 | 42.2 |
| | | | | 10 | 6.5 | 56.6 | 19.0 | 50.1 | 43.3 | 54.0 | 47.5 | 40.3 |
| | | | | 16 | 8.2 | 53.2 | 18.0 | 45.0 | 39.2 | 50.6 | 42.4 | 36.2 |
| | | | | 20 | 9.2 | 51.6 | 17.5 | 42.5 | 37.2 | 49.0 | 39.8 | 34.2 |
| | | | | 25 | 10.2 | 50.0 | 17.0 | 39.8 | 35.3 | 47.3 | 37.1 | 32.3 |
| | | | | 31.25 | 11.5 | 48.4 | 16.5 | 36.9 | 33.4 | 45.7 | 34.2 | 30.4 |
| | | | | 62.5 | 16.4 | 43.4 | 14.0 | 27.0 | 27.3 | 40.6 | 24.2 | 24.3 |
| | | | | 100 | 20.9 | 39.9 | 12.0 | 19.0 | 23.3 | 37.1 | 16.2 | 20.3 |
| | | | | 200 | 30.1 | 34.8 | 9.0 | 4.7 | 17.2 | 31.9 | 1.8 | 14.2 |
| | | | | 250 | 33.9 | 33.1 | 8.0 | -0.8 | 15.3 | 30.2 | -3.7 | 12.3 |
| | | | | 350 | 40.6 | 30.3 | 6.6 | -10.3 | 12.4 | 27.3 | -13.3 | 9.4 |
| | | | | 500 | 49.3 | 26.1 | 6.0 | -23.2 | 9.3 | 23.2 | -26.1 | 6.3 |

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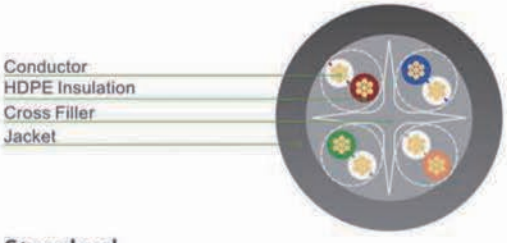
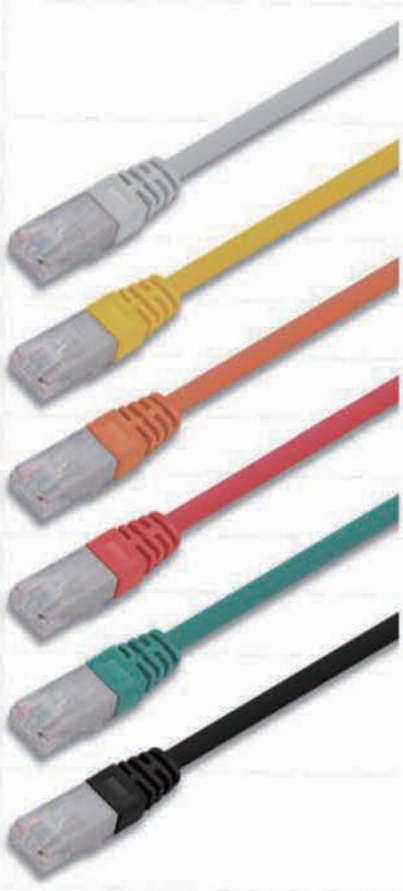
# STRUCTURE CABLING

## PATCH CORD

### U/UTP unshielded twisted 4 pairs category 6 patch cord



### Standard

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568B Category 6 and ISO/EIC specifications.
- Independently tested and verified intertek(ETL).
- Ideal for Data center architectural requirements.
- Stranded cable for maximum flexibility.
- Available with different plug mold.
- Available with different color of cable.
- Available with different length.

### Conductor

| | |
|---|---|
| Conductor | Stranded Bare Copper 24AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown |
| Individual pair shield | None |
| Overall shield | None |
| Drain wire | None |

### Nominal Transmission Characteristics

| Res. | Length | Prop. Delay | Delay Skew | Freq. | Insertion Loss | NEXT | RL | ACR-N | ACR-F | PS NEXT | PS ACR-N | PS ACR-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ω | Max. | ns | ns | MHz | dB | dB | dB | dB | dB | dB | dB | dB |
| i | 100m | 555 | 50 | 1 | 3 | 65.0 | 19.0 | 62.0 | 63.3 | 62.0 | 59.0 | 60.3 |
| | | | | 4 | 4 | 63.0 | 19.0 | 59.0 | 51.2 | 60.5 | 56.5 | 48.2 |
| | | | | 8 | 5.7 | 58.2 | 19.0 | 52.5 | 45.2 | 55.6 | 49.9 | 42.2 |
| | | | | 10 | 6.3 | 56.6 | 19.0 | 50.2 | 43.3 | 54.0 | 47.7 | 40.3 |
| | | | | 16 | 8 | 53.2 | 18.0 | 45.2 | 39.2 | 50.6 | 42.6 | 36.2 |
| | | | | 20 | 9 | 51.6 | 17.5 | 42.6 | 37.2 | 49.0 | 39.9 | 34.2 |
| | | | | 25 | 10.1 | 50.0 | 17.0 | 39.9 | 35.3 | 47.3 | 37.2 | 32.3 |
| | | | | 31.25 | 11.4 | 48.4 | 16.5 | 37.0 | 33.4 | 45.7 | 34.3 | 30.4 |
| | | | | 62.5 | 16.5 | 43.4 | 14.0 | 26.9 | 27.3 | 40.6 | 24.1 | 24.3 |
| | | | | 100 | 21.3 | 39.9 | 12.0 | 18.6 | 23.3 | 37.1 | 15.8 | 20.3 |
| | | | | 200 | 31.5 | 34.8 | 9.0 | 3.3 | 17.2 | 31.9 | 0.3 | 14.2 |
| | | | | 250 | 35.9 | 33.1 | 8.0 | -2.8 | 15.3 | 30.2 | -5.8 | 12.3 |

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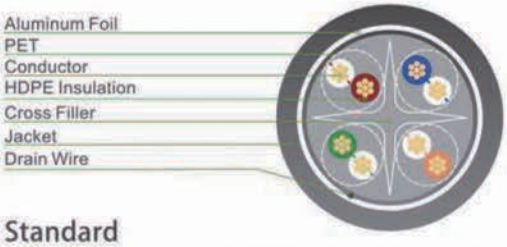
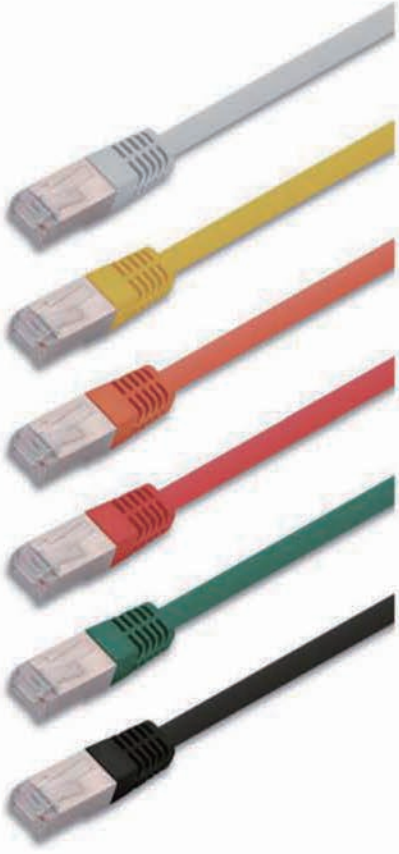
# STRUCTURE CABLING

## PATCH CORD

### F/FTP shielded twisted 4 pairs category 6 patch cord



### Standard

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568B Category 6 and ISO/EIC specifications.
- Independently tested and verified intertek(ETL).
- Ideal for Data center architectural requirements.
- Stranded cable for maximum flexibility.
- Available with different plug mold.
- Available with different color of cable.
- Available with different length.

### Conductor

| | |
|---|---|
| Conductor | stranded bare copper 26AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown |
| Individual pair shield | None |
| Overall shield | Aluminum foil, providing 100% coverage, foil face out. |
| Drain wire | Tinned copper |

### Nominal Transmission Characteristics

| Res. | Length | Prop. Delay | Delay Skew | Freq. | Insertion Loss | NEXT | RL | ACR-N | ACR-F | PS NEXT | PS ACR-N | PS ACR-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ω | Max. | ns | ns | MHz | dB | dB | dB | dB | dB | dB | dB | dB |
| i | 100m | 555 | 50 | 1 | 3 | 65.0 | 19.0 | 62.0 | 63.3 | 62.0 | 59.0 | 60.3 |
| | | | | 4 | 4 | 63.0 | 19.0 | 59.0 | 51.2 | 60.5 | 56.5 | 48.2 |
| | | | | 8 | 5.7 | 58.2 | 19.0 | 52.5 | 45.2 | 55.6 | 49.9 | 42.2 |
| | | | | 10 | 6.3 | 56.6 | 19.0 | 50.2 | 43.3 | 54.0 | 47.7 | 40.3 |
| | | | | 16 | 8 | 53.2 | 18.0 | 45.2 | 39.2 | 50.6 | 42.6 | 36.2 |
| | | | | 20 | 9 | 51.6 | 17.5 | 42.6 | 37.2 | 49.0 | 39.9 | 34.2 |
| | | | | 25 | 10.1 | 50.0 | 17.0 | 39.9 | 35.3 | 47.3 | 37.2 | 32.3 |
| | | | | 31.25 | 11.4 | 48.4 | 16.5 | 37.0 | 33.4 | 45.7 | 34.3 | 30.4 |
| | | | | 62.5 | 16.5 | 43.4 | 14.0 | 26.9 | 27.3 | 40.6 | 24.1 | 24.3 |
| | | | | 100 | 21.3 | 39.9 | 12.0 | 18.6 | 23.3 | 37.1 | 15.8 | 20.3 |
| | | | | 200 | 31.5 | 34.8 | 9.0 | 3.3 | 17.2 | 31.9 | 0.3 | 14.2 |
| | | | | 250 | 35.9 | 33.1 | 8.0 | -2.8 | 15.3 | 30.2 | -5.8 | 12.3 |





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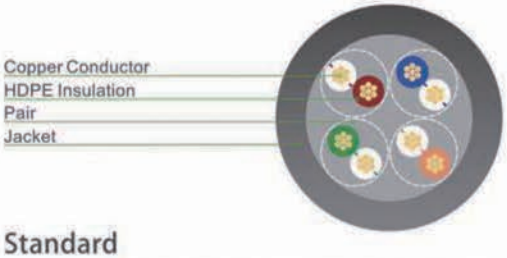
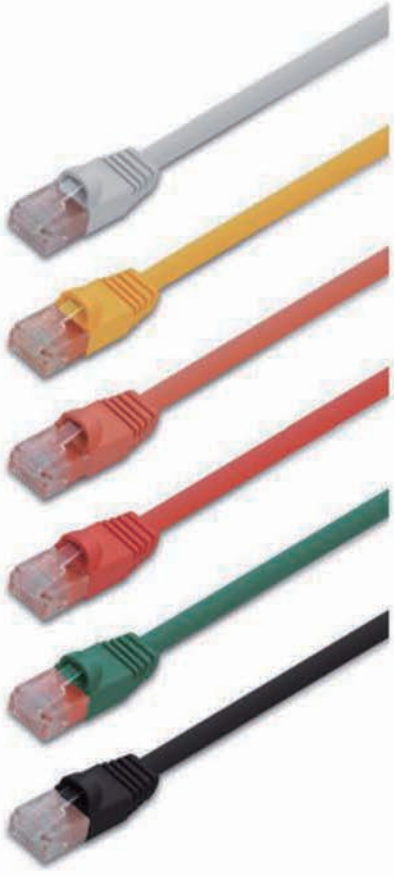
# STRUCTURE CABLING

## PATCH CORD

### U/UTP unshielded twisted 4 pairs category 5e patch cord



### Standard

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568B Category 5e and ISO/EIC specifications.
- Independently tested and verified intertek(ETL).
- Ideal for Data center architectural requirements.
- Stranded cable for maximum flexibility.
- Available with different plug mold.
- Available with different color of cable.
- Available with different length.

### Conductor

| | |
|---|---|
| Conductor | stranded bare copper 24AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown |
| Individual pair shield | None |
| Overall shield | None |
| Drain wire | None |

### Nominal Transmission Characteristics

| Res. | Length | Prop. Delay | Delay Skew | Freq. | Insertion Loss | NEXT | RL | ACR-N | ACR-F | PS NEXT | PS ACR-N | PS ACR-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ω | Max. | ns | ns | MHz | dB | dB | dB | dB | dB | dB | dB | dB |
| i | 100m | 555 | 50 | 1 | 3 | 60.0 | 17.0 | 57.0 | 57.4 | 57.0 | 54.0 | 54.4 |
| | | | | 4 | 4.5 | 53.5 | 17.0 | 49.1 | 45.4 | 50.5 | 46.1 | 42.4 |
| | | | | 8 | 6.3 | 48.6 | 17.0 | 42.3 | 39.3 | 45.6 | 39.3 | 36.3 |
| | | | | 10 | 7.1 | 47.0 | 17.0 | 39.9 | 37.4 | 44.0 | 36.9 | 34.4 |
| | | | | 16 | 9.1 | 43.6 | 17.0 | 34.5 | 33.3 | 40.6 | 31.5 | 30.3 |
| | | | | 20 | 10.2 | 42.0 | 17.0 | 31.8 | 31.4 | 39.0 | 28.8 | 28.4 |
| | | | | 25 | 11.4 | 40.3 | 16.0 | 28.9 | 29.4 | 37.3 | 25.9 | 26.4 |
| | | | | 31.25 | 12.9 | 38.7 | 15.1 | 25.9 | 27.5 | 35.7 | 22.9 | 24.5 |
| | | | | 62.5 | 18.6 | 33.6 | 12.1 | 15.0 | 21.2 | 30.6 | 12.0 | 18.5 |
| | | | | 100 | 24 | 30.1 | 10.0 | 6.1 | 17.4 | 27.1 | 3.1 | 14.4 |

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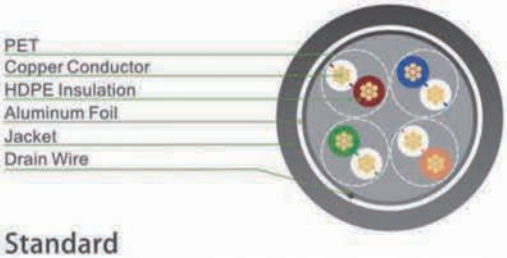
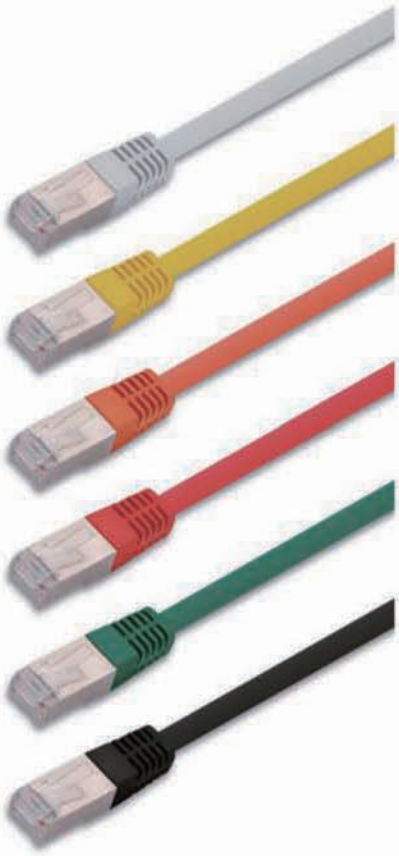
# STRUCTURE CABLING

## PATCH CORD

### F/UTP shielded twisted 4 pairs category 5e patch cord



### Standard

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568B Category 5e and ISO/EIC specifications.
- Independently tested and verified intertek(ETL).
- Ideal for Data center architectural requirements.
- Stranded cable for maximum flexibility.
- Available with different plug mold.
- Available with different color of cable.
- Available with different length.

### Conductor

| | |
|---|---|
| Conductor | stranded bare copper 26AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown |
| Individual pair shield | None |
| Overall shield | Aluminum foil, providing 100% coverage, foil face out. |
| Drain wire | None |

### Nominal Transmission Characteristics

| Res. | Length | Prop. Delay | Delay Skew | Freq. | Insertion Loss | NEXT | RL | ACR-N | ACR-F | PS NEXT | PS ACR-N | PS ACR-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ω | Max. | ns | ns | MHz | dB | dB | dB | dB | dB | dB | dB | dB |
| i | 100m | 555 | 50 | 1 | 3 | 60.0 | 17.0 | 57.0 | 57.4 | 57.0 | 54.0 | 54.4 |
| | | | | 4 | 4.5 | 53.5 | 17.0 | 49.1 | 45.4 | 50.5 | 46.1 | 42.4 |
| | | | | 8 | 6.3 | 48.6 | 17.0 | 42.3 | 39.3 | 45.6 | 39.3 | 36.3 |
| | | | | 10 | 7.1 | 47.0 | 17.0 | 39.9 | 37.4 | 44.0 | 36.9 | 34.4 |
| | | | | 16 | 9.1 | 43.6 | 17.0 | 34.5 | 33.3 | 40.6 | 31.5 | 30.3 |
| | | | | 20 | 10.2 | 42.0 | 17.0 | 31.8 | 31.4 | 39.0 | 28.8 | 28.4 |
| | | | | 25 | 11.4 | 40.3 | 16.0 | 28.9 | 29.4 | 37.3 | 25.9 | 26.4 |
| | | | | 31.25 | 12.9 | 38.7 | 15.1 | 25.9 | 27.5 | 35.7 | 22.9 | 24.5 |
| | | | | 62.5 | 18.6 | 33.6 | 12.1 | 15.0 | 21.2 | 30.6 | 12.0 | 18.5 |
| | | | | 100 | 24 | 30.1 | 10.0 | 6.1 | 17.4 | 27.1 | 3.1 | 14.4 |

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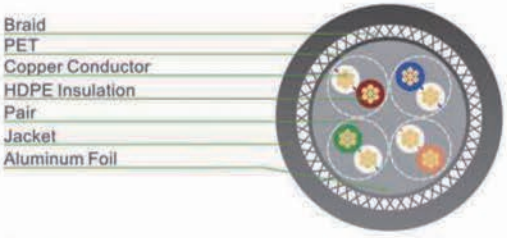
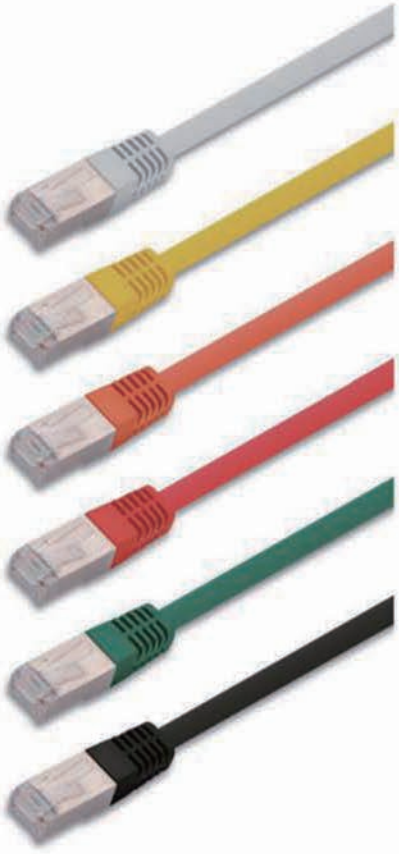
# STRUCTURE CABLING

## PATCH CORD

### SF/UTP double fully shielded twisted 4 pairs category 5e patch cord



### Standard

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568B Category 5e and ISO/EIC specifications.
- Independently tested and verified intertek(ETL).
- Ideal for Data center architectural requirements.
- Stranded cable for maximum flexibility.
- Available with different plug mold.
- Available with different color of cable.
- Available with different lengt.

### Conductor

| | |
|---|---|
| Conductor | stranded bard copper 26AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | White-Blue/Blue,White-Orange/Orange White-Green/Green,White-Brown/Brown |
| Individual pair shield | None |
| Overall shield | Aluminum foil, providing 100% coverage, foil face out. |
| Drain wire | None |

### Nominal Transmission Characteristics

| Res. | Length | Prop. Delay | Delay Skew | Freq. | Insertion Loss | NEXT | RL | ACR-N | ACR-F | PS NEXT | PS ACR-N | PS ACR-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ω | Max. | ns | ns | MHz | dB | dB | dB | dB | dB | dB | dB | dB |
| i | 100m | 555 | 50 | 1 | 3 | 60.0 | 17.0 | 57.0 | 57.4 | 57.0 | 54.0 | 54.4 |
| | | | | 4 | 4.5 | 53.5 | 17.0 | 49.1 | 45.4 | 50.5 | 46.1 | 42.4 |
| | | | | 8 | 6.3 | 48.6 | 17.0 | 42.3 | 39.3 | 45.6 | 39.3 | 36.3 |
| | | | | 10 | 7.1 | 47.0 | 17.0 | 39.9 | 37.4 | 44.0 | 36.9 | 34.4 |
| | | | | 16 | 9.1 | 43.6 | 17.0 | 34.5 | 33.3 | 40.6 | 31.5 | 30.3 |
| | | | | 20 | 10.2 | 42.0 | 17.0 | 31.8 | 31.4 | 39.0 | 28.8 | 28.4 |
| | | | | 25 | 11.4 | 40.3 | 16.0 | 28.9 | 29.4 | 37.3 | 25.9 | 26.4 |
| | | | | 31.25 | 12.9 | 38.7 | 15.1 | 25.9 | 27.5 | 35.7 | 22.9 | 24.5 |
| | | | | 62.5 | 18.6 | 33.6 | 12.1 | 15.0 | 21.2 | 30.6 | 12.0 | 18.5 |
| | | | | 100 | 24 | 30.1 | 10.0 | 6.1 | 17.4 | 27.1 | 3.1 | 14.4 |

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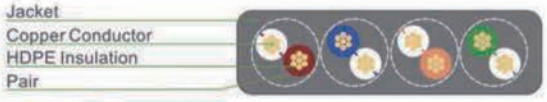
# STRUCTURE CABLING

## PATCH CORD

### U/UTP unshielded twisted 4 pairs category 6 flat patch cord




### Standard

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568B Category 6 and ISO/EIC specifications.
- Independently tested and verified intertek(ETL).
- Ideal for Data center architectural requirements.
- Stranded cable for maximum flexibility.
- Available with different plug mold.
- Available with different color of cable.
- Available with different lengt.

### Conductor

| | |
|---|---|
| Conductor | stranded bard copper 32AWG |
| Insulation | HDPE |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | blue x white, orange x white, green x white, brown x white |
| Individual pair shield | None |
| Overall shield | None |
| Drain wire | None |

### Nominal Transmission Characteristics

| Res. | Length | Prop. Delay | Delay Skew | Freq. | Insertion Loss | NEXT | RL | ACR-N | ACR-F | PS NEXT | PS ACR-N | PS ACR-F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ω | Max. | ns | ns | MHz | dB | dB | dB | dB | dB | dB | dB | dB |
| i | 20m | 555 | 50 | 1 | 3 | 65.0 | 19.0 | 62.0 | 63.3 | 62.0 | 59.0 | 60.3 |
| | | | | 4 | 4 | 63.0 | 19.0 | 59.0 | 51.2 | 60.5 | 56.5 | 48.2 |
| | | | | 8 | 5.7 | 58.2 | 19.0 | 52.5 | 45.2 | 55.6 | 49.9 | 42.2 |
| | | | | 10 | 6.3 | 56.6 | 19.0 | 50.2 | 43.3 | 54.0 | 47.7 | 40.3 |
| | | | | 16 | 8 | 53.2 | 18.0 | 45.2 | 39.2 | 50.6 | 42.6 | 36.2 |
| | | | | 20 | 9 | 51.6 | 17.5 | 42.6 | 37.2 | 49.0 | 39.9 | 34.2 |
| | | | | 25 | 10.1 | 50.0 | 17.0 | 39.9 | 35.3 | 47.3 | 37.2 | 32.3 |
| | | | | 31.25 | 11.4 | 48.4 | 16.5 | 37.0 | 33.4 | 45.7 | 34.3 | 30.4 |
| | | | | 62.5 | 16.5 | 43.4 | 14.0 | 26.9 | 27.3 | 40.6 | 24.1 | 24.3 |
| | | | | 100 | 21.3 | 39.9 | 12.0 | 18.6 | 23.3 | 37.1 | 15.8 | 20.3 |
| | | | | 200 | 31.5 | 34.8 | 9.0 | 3.3 | 17.2 | 31.9 | 0.3 | 14.2 |
| | | | | 250 | 35.9 | 33.1 | 8.0 | -2.8 | 15.3 | 30.2 | -5.8 | 12.3 |

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