

## CAT.6A F/FTP 500 MHZ

EMEK KABLO CAT.6A F/FTP 500 MHZ



## KULLANIM ALANLARI

ISDN - VoIP  
 TOKEN RING 4/16 Mbit - 100 VG-AnyLAN  
 TP-PMD/TP-DDI - ATM 155, 622, 1200 Mbit  
 ETHERNET: 10 Base T, 100 Base Tx, 100 Base T4, 1000 Base T, 10 G Base T  
 IEEE 802.3af - PoE (Power Over Ethernet)  
 Future 802.3at - PoEP (Power over Ethernet Plus)

## KABLO YAPISI

|             |  |
|-------------|--|
| İletken     | Mono tavlı bakır AWG23                               |
| İzolasyon   | PO - Poliolefin                                      |
| 1. Ekran    | Bireysel AL/PET folyo - %100 kapama                  |
| Toprak Teli | Mono kalaylı bakır AWG26                             |
| 2. Ekran    | ALPET folyo - %100 kapama                            |
| Kılıf       | PVC veya LSZH - RAL 4001 Mor                         |
| Standartlar | EIA/TIA 568-B2-10 / IEC 61156-5 Ed2<br>EN 50288-10-1 |

## TEKNİK ÖZELLİKLER

|              |   |
|--------------|---|
| Direnç (max) | 75 Ω / km   |
| Empedans     | 1-100 MHz 100 ± 15 Ω / 100-250 MHz 100 ± 20 Ω<br>250-500 MHz 100 ± 25 Ω |
| Kapasite     | Nominal 45 pF/m   |
| Yayıma Hızı  | 79% c   |

## APLICATION

ISDN - VoIP  
 TOKEN RING 4/16 Mbits - 100 VG-AnyLAN  
 TP-PMD/TP-DDI - ATM 155, 622, 1200 Mbits  
 ETHERNET: 10 Base T, 100 Base Tx, 100 Base T4, 1000 Base T, 10 G Base T  
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## CONSTRUCTION

|             |  |
|-------------|--|
| Conductor   | Solid annealed copper AWG23                          |
| Insulation  | PO - Polyolefin                                      |
| Shielding 1 | Individual AL/PET foil - Coverage 100%               |
| Drain Wire  | Solid tinned copper AWG26                            |
| Shielding 2 | AL/PET foil - Coverage 100%                          |
| Jacket      | PVC or LSZH - Violet RAL 4001                        |
| Standards   | EIA/TIA 568-B2-10 / IEC 61156-5 Ed2<br>EN 50288-10-1 |

## TECHNICAL SPECIFICATIONS

|                         |   |
|-------------------------|---|
| Resistance (max)        | 75 Ω / km   |
| Impedance               | 1-100 MHz 100 ± 15 Ω / 100-250 MHz 100 ± 20 Ω<br>250-500 MHz 100 ± 25 Ω |
| Capacitance             | Nominal 45 pF/m   |
| Velocity Of Propagation | 79% c   |

| MHz   | INSERTION LOSS<br>(dB/100 m) | NEXT<br>(dB/100 m) | ACR-N<br>(dB/100 m) | PSNEXT<br>(dB/100 m) | ACR-F<br>(dB/100 m) | PSACR-F<br>(dB/100 m) | RETURN LOSS<br>(dB/100 m) |
|-------|------------------------------|--------------------|---------------------|----------------------|---------------------|-----------------------|---------------------------|
| 1     | 2.0                          | 75.0               | 73.0                | 72.0                 | 67.8                | 64.8                  | 20.0                      |
| 4     | 3.7                          | 65.3               | 61.6                | 62.3                 | 55.8                | 52.8                  | 23.0                      |
| 10    | 5.8                          | 59.3               | 53.5                | 56.3                 | 47.8                | 44.8                  | 25.0                      |
| 16    | 7.4                          | 56.2               | 48.8                | 53.2                 | 43.7                | 40.7                  | 25.0                      |
| 25    | 9.2                          | 53.3               | 44.1                | 50.3                 | 39.8                | 36.8                  | 24.3                      |
| 31.25 | 10.4                         | 51.9               | 41.5                | 48.9                 | 37.9                | 34.9                  | 23.8                      |
| 100   | 19.0                         | 44.3               | 25.3                | 41.3                 | 27.8                | 24.8                  | 20.1                      |
| 200   | 27.5                         | 39.8               | 12.3                | 36.8                 | 21.8                | 18.8                  | 18.0                      |
| 250   | 31.0                         | 38.3               | 7.3                 | 35.3                 | 19.8                | 16.8                  | 17.3                      |
| 300   | 34.2                         | 37.1               | 2.9                 | 34.1                 | 19.8                | 16.8                  | 17.3                      |
| 400   | 40.0                         | 35.3               | -4.7                | 32.3                 | 19.8                | 16.8                  | 17.3                      |
| 500   | 45.3                         | 33.8               | -11.5               | 30.8                 | 19.8                | 16.8                  | 17.3                      |