

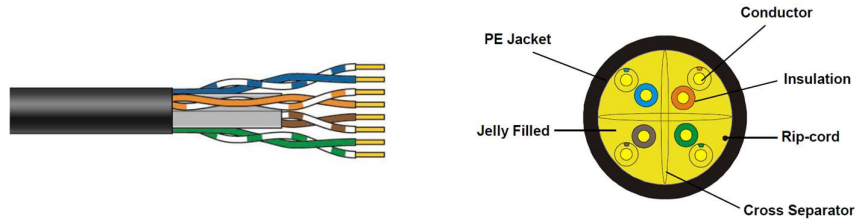
R&M U/UTP Cat.6A 500 MHz Jelly Filled LDPE

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R&M U/UTP Cat.6A 500MHz 4PxAWG23 LDPE ISO/IEC 11801 ANSI/TIA-568-C.2 U batch no. ><dd/mm/yy><meter> m

| | | |
|------------------------|--------------------|---------|
| Cable reference | Part number | R937774 |
| | Source code | 701264 |

| | | |
|---------------------------|---------------------|---|
| Cable construction | Conductor | Bare solid copper wire AWG23 ($\geq \varnothing 0.565 \pm 0.005$ mm) |
| | Insulation | HDPE $\leq \varnothing 1.12 \pm 0.08$ mm |
| | Twisting | 2 wires to the pair |
| | Cable lay up | 4 pairs to the core |
| | Sheath | LDPE, black |



| | |
|--------------------|--|
| Application | Primary (Campus), Secondary (Riser), Tertiary (Horizontal) |
| | IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T; 10GBase-T |
| | IEEE 802.5 16 MB; ISDN; TPDDI; ATM |
| | IEEE 802.3af-2002: POE; IEEE 802.3at: POE+ IEEE802.3bt 4PPoE |

| | |
|------------------|---|
| Standards | ISO/IEC 11801 2nd ed.; EN 50173-1; ANSI/TIA-568.2 |
| | IEC 61156-5 2nd ed; EN50399; IEC60754.2; EN50174 |

| | | |
|-----------------------|--------------------------|---|
| Technical Data | Cable designation | U/UTP Cat.6A 500 MHz 4PxAWG23 Jelly Filled PE |
| | Packaging | Box 305 m |
| | Outer diameter | Nominal 7.1 ± 0.5 mm |

| | | | |
|------------------------------|--------------------------------------|---------------|--------------|
| Electrical Properties | DC loop resistance | 9.5 Ω / 100 m | |
| | DC Conductor Resistance | max. 5 | |
| (at 20°C ± 5°C) | Unbalance (%) | | |
| | Mean characteristic impedance | 1-250MHz | 100 ± 15 Ω |
| | Delay skew | 1-250MHz | ≤ 45 ns/100m |

Typical transmission characteristics ≤85m (at 20°C)

| f (MHz) | Attenuation (dB/100 m) | NEXT (dB) | PS-NEXT (dB) | ACR-F ¹⁾ (dB/100 m) | PS-ACR-F ¹⁾ (dB/100 m) | Return loss (dB) |
|-------------------|----------------------------------|---------------------|------------------------|--|---|----------------------------|
| 1.00 | 3.0 | 65.0 | 62.0 | 64.2 | 61.2 | 19.1 |
| 4.00 | 3.5 | 64.1 | 61.8 | 52.1 | 52.1 | 21.0 |
| 8.00 | 5.0 | 59.4 | 57.0 | 46.1 | 46.0 | 21.0 |
| 10.00 | 5.5 | 57.8 | 55.5 | 44.2 | 44.2 | 21.0 |
| 16.00 | 7.0 | 54.6 | 52.2 | 40.1 | 40.1 | 20.0 |
| 20.00 | 7.9 | 53.1 | 50.7 | 38.2 | 38.2 | 19.5 |
| 25.00 | 8.9 | 51.5 | 49.1 | 36.2 | 36.2 | 19.0 |
| 31.25 | 10.0 | 50.0 | 47.5 | 34.3 | 34.3 | 18.5 |
| 62.50 | 14.4 | 45.1 | 42.7 | 28.3 | 28.3 | 16.0 |
| 100.00 | 18.6 | 41.8 | 39.3 | 24.2 | 24.2 | 14.0 |
| 200.00 | 27.4 | 36.9 | 34.3 | 18.2 | 18.2 | 11.0 |
| 250.00 | 31.1 | 35.3 | 32.7 | 16.2 | 16.2 | 10.0 |
| 400.00 | 38.4 | 29.9 | 27.1 | 12.1 | 12.1 | 8.0 |
| 500.00 | 43.8 | 26.7 | 23.8 | 10.2 | 10.2 | 8.0 |

1) ACR-F was formerly known as ELFEXT