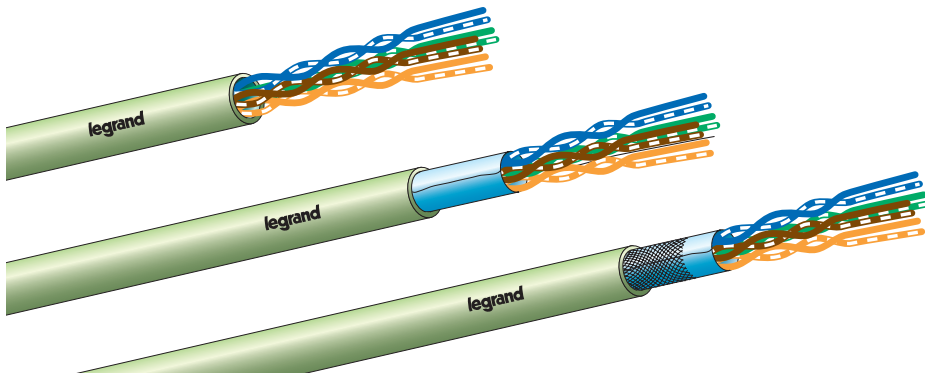


Category 6 cables for LCS⁶

Cat. No(s) : 327 54/55/56/57/58/59/75/76



CONTENTS

PAGE

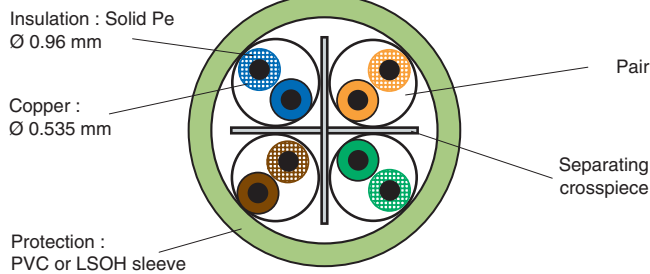
| | |
|---|---|
| 1. Use and mounting | 1 |
| 2. Description | 1 |
| 3. Technical and mechanical characteristics | 1 |
| 4. Environmental characteristics | 1 |
| 5. Electrical characteristics | 2 |
| 6. Performance at 250 MHz | 2 |
| 7. Marking of Legrand cables | 2 |
| 8. Ordering information..... | 2 |
| 9. Standards and approvals..... | 2 |
| 10. Glossary..... | 2 |

1. USE AND MOUNTING

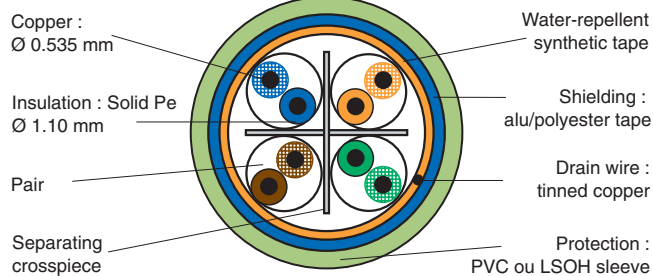
Cable designed for high-speed VDI transmission networks.

2. DESCRIPTION

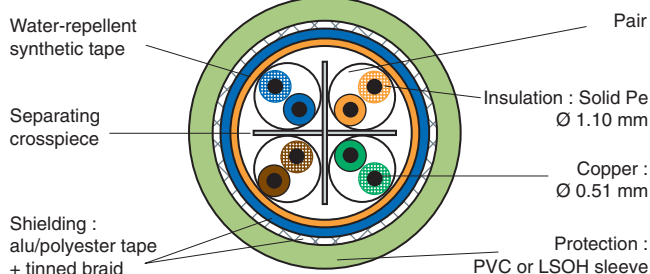
UTP 100 Ω



FTP 100 Ω



SFTP 100 Ω



Note :

The conductive part of the shielding is on the wire side

3. TECHNICAL AND MECHANICAL CHARACTERISTICS

| Cat. No. | 327 54 | 327 55 | 327 56 | 327 57 | 327 58 | 327 59 | 327 75 | 327 76 |
|---|--------|--------|--------|--------|--------|--------|------------|----------|
| Type | UTP | UTP | FTP | SFTP | FTP | SFTP | UTP | FTP |
| Type of sleeve | LSOH | PVC | LSOH | LSOH | PVC | PVC | PVC | LSOH |
| Number of pairs | 4 | 4 | 4 | 4 | 4 | 4 | 2 x 4 | 2 x 4 |
| Assembly | Pairs | Pairs | Pairs | Pairs | Pairs | Pairs | Pairs | Pairs |
| Diameter of conductor in mm | 0.535 | 0.535 | 0.535 | 0.51 | 0.535 | 0.51 | 0.535 | 0.535 |
| Diameter on insulation in mm | 0.96 | 0.96 | 1.10 | 1.10 | 1.10 | 1.10 | 0.96 | 1.10 |
| Diameter of cable in mm | 6.4 | 6.4 | 7 | 7.70 | 7 | 7.70 | 6.5 x 13.5 | 7 x 14.5 |
| Weight of cable in Kg/Km | 50 | 47 | 51 | 60 | 49 | 57 | 110 | 109 |
| Min. dyn bending radius on installation | 55 | 55 | 60 | 60 | 60 | 60 | 55 | 60 |
| Maximum installation voltage | 90 N | 90 N | 80 N | 80 N | 80 N | 80 N | 180 N | 160 N |
| AWG gauge | 24 | 24 | 24 | 23 | 24 | 23 | 24 | 24 |

4. ENVIRONMENTAL CHARACTERISTICS

Transport and storage temperatures : 0°C to + 50°C

Operating temperatures : - 20°C to + 60°C

Fire resistance :

Cat. Nos. 327 54/55/56/58/75/76 :

IEC 332-1, NFC 32070 2.1 (Category C2)

Cat. Nos 327 57/59 :

IEC 332-1, NFC 32070 2.1 (Category C2) IEC 332-3C

5. ELECTRICAL CHARACTERISTICS AT 20°C

| Cat. No. | 327 54 | 327 55 | 327 56 | 327 57 | 327 58 | 327 59 | 327 75 | 327 76 |
|--|--------|--------|------------------|------------------|------------------|------------------|----------------|------------------|
| Type | UTP | UTP | FTP | SFTP | FTP | SFTP | UTP | FTP |
| Maximum linear resistance Ohm/km | 98.6 | 98.6 | 93.8 | 93.8 | 93.8 | 93.8 | 98.6 | 93.8 |
| Dielectric strength in direct current | 1 KV | 1 KV | 1 KV/ 1 min | 1 KV/ 1 min | 1 KV/ 1 min | 1 KV/ 1 min | 1 KV/ 1 min | 1 KV/ 1 min |
| Minimum insulation resistance Mohm.km | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 |
| Maximum Real-Earth capacity imbalance | — | — | 800 pf/ 500 m | 800 pf/ 500 m | 800 pf/ 500 m | 800 pf/ 500 m | — | 800 pf/ 500 m |
| Transfer impedance (Zt) from 1 to 10 Mhz | — | — | 10 mΩ/m | 100 mΩ/m | 10 mΩ/m | 100 mΩ/m | — | 10 mΩ/m |
| Minimum propagation velocity | 66 % | 66 % | 66 % | 66 % | 66 % | 66 % | 66 % | 66 % |
| Characteristic impedance from 1 to 100 Mhz | 100 Ω | 100 Ω | 100 Ω | 100 Ω | 100 Ω | 100 Ω | 100 Ω | 100 Ω |

6. PERFORMANCE at 250 MHz

Maximum loss (dB/100 m) : 33
 Minimum NEXT (dB) : 38,3
 Minimum ACR (dB) : 5,3
 PS NEXT (dB) : 36,3
 ELFEXT (dB/100 m) : 18,8
 PS ELFEXT (dB/100 m) : 16,8
 Return Loss (dB) : 17,3

7. MARKING OF LEGRAND CABLES

Legrand, Cat. No., Number of pairs, Gauge, Type, Impedance, Type of sleeve, Category, Conformity to standards, Batch no., Measurement (length remaining)

8. ORDERING INFORMATION

| Cat. No. | 327 54 | 327 55 | 327 56 | 327 57 | 327 58 | 327 59 | 327 75 | 327 76 |
|-----------------|-----------------------------|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Type | UTP | UTP | FTP | SFTP | FTP | SFTP | UTP | FTP |
| Colour | Green | Green | Green | Green | Green | Green | Green | Green |
| Pack (m) | 305 | 305 | 500 | 500 | 500 | 500 | 500 | 500 |
| Packaging | Box | Box | Drum | Drum | Drum | Drum | Drum | Drum |
| Dimensions (mm) | 393 x 393 x 250 | 393 x 393 x 250 | 450 x 270 | 450 x 270 | 450 x 270 | 450 x 270 | 450 x 270 | 450 x 270 |
| Weight (Kg) | 11.035 | 10.634 | 28 | 32.70 | 26.40 | 32 | 42.20 | 60 |

9. STANDARDS AND APPROVALS

Conforming to the following standards :
 Cat 6, 250 MHz
 ISO 11 801, EN 50 173, EIA / TIA - 568 A, IEC 332-1

10. GLOSSARY

PE : Polyester
 LSOH : Low Smoke Zero Halogen
 UTP : Unshielded Twisted Pair
 FTP : Foiled Twisted Pair
 SFTP : Shielded Foiled Twisted Pair
 NEXT : Near-End Crosstalk
 PSNEXT : Power Sum Next
 ACR : Attenuation to Crosstalk Ratio
 ELFEXT : Equal Level Far-End Crosstalk
 AWG : American Wire Gauge