

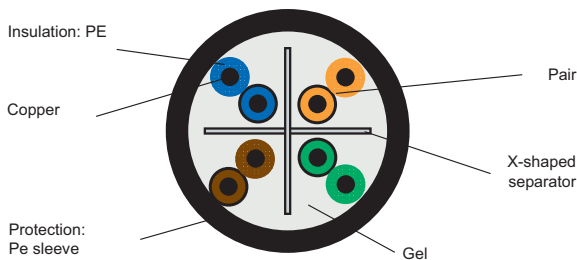


### 1. USE

Cable for outdoor extension of local networks

802.3 bt PoE++ up to type 4 applications compatible according to installation standards ISO/IEC 14763-2 : 2019 and EN 50174-2 : 2018

### 2. DESCRIPTION



### 3. MARKING AND PACKAGING

Marking of Legrand cables

- LEGRAND
- Catalogue number
- Number of pairs
- Gauge
- Type
- Impedance
- Type of sleeve
- Category
- Conformity to standards
- Traceability
- Measurement (remaining length in metres).

Complementary marking (on the packaging label)

- Designation
- Made in ...

### 4. PERFORMANCE AT 250 MHZ (STAND. ANSI/TIA 568.2-D)

Reference	0 328 29
Maximum attenuation (dB/100 m)	32,8
Minimum NEXT (dB)	38,3
PS NEXT (dB)	36,3
ACRF (dB / 100 m)	19,8
PS ACRF (dB / 100 m)	16,8
Return Loss (dB)	17,3

### 5. TECHNICAL AND MECHANICAL FEATURES

Catalogue number	0 328 29
Type	U/UTP
Type of sleeve	PE + gel filled
Number of pairs	4
Assembly	Pairs
Diameter over insulation (mm)	1,1 ± 0,08
Cable diameter (mm)	6,7 ± 0,3
Weight of cable (kg/km)	52
Min. bending radius when laying (mm)	27
AWG gauge*	23

\* According to UL 444 ed.3 table 4

**6. ELECTRICAL FEATURES AT 20°C**

Catalogue number	0 328 29
Type	U/UTP
Maximum linear resistance (ohm/km)	94 *
DC dielectric strength	1 KV / 1 min *
Minimum insulation resistance (Mohm.km)	5000
Minimum propagation speed	66 %
Characteristic impedance at 100 MHz	100 ±15Ω

\* According to standard IEC 61156-5

**7. ORDERING INFORMATION**

Catalogue number	0 328 29
Type	U/UTP
Colour	Black
Pack (m)	500
Packaging	Reel

**8. ENVIRONMENTAL FEATURES**

Transport and storage temperature : 0 to + 50 °C

Storage temperature before installation : 10°C during 24h (if stock ≤ 5°C)

Usage temperature: - 20 to + 60 °C

**9. STANDARDS AND APPROVALS**

Cat 6, 250 MHz

Electrical performances and characteristics :

ANSI/TIA 568.2-D

- EN 50173-1

- EN 50288-6-1

- ISO/IEC 11801 (ed. 2.2)

- IEC 61156-5

PoE+ : IEEE 802.3at

**10. RECOMMENDATIONS OF INSTALLATION**

The cable is rated for outdoor use conditions.

Cable should have slack to allow 15% length variation due to temperature differences.

Cable entrance sleeve through an outside must should be sloped downwards to the outside .

Any fire rated wall penetration must be closed with fire rated method and labeled accordingly.

Compared to usual indoor cables, these outdoor cables require special attention during installation due to lightning. Requirements and guidance can be found in:

- ISO/IEC 14763, EN50174, BICSI guidelines or equivalent local standards for general methods.

- Assessment and protection for lightning in IEC 62305 series or equivalent local standards

**Entrance Through a Wall**

The following figure shows a cable entrance sleeve placed through a building wall. When this method is used, ensure that the raceway slopes downward the outside of the building. Seal the entrance sleeve from rodents, moisture, and insects with the appropriate material.

Cable entrance sleeve through a wall

