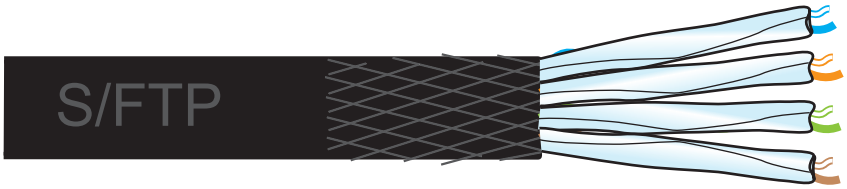
128, av. du Maréchal-de-Lattre-de-Tassigny - 87045 LIMOGES Cedex
Tel : 0 (+33) 5 55 06 87 87 Fax : 0 (+33) 5 55 06 88 88
www.legrand.com

Cat.7 S/FTP indoor/outdoor cable for local networks

Catalogue number(s) : 0 338 90



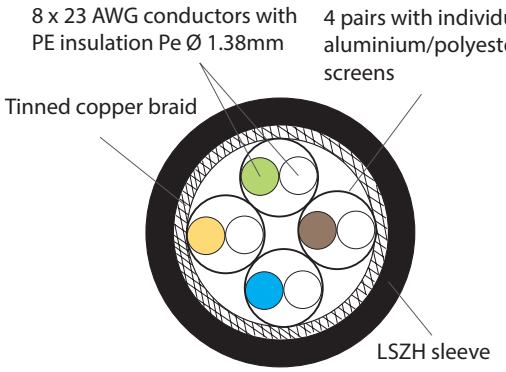
1. USE

Cables with 4 twisted pairs, 100 ohms for high-speed data networks.

This cable is provided for a "wall mounting" installation (video supervision, intercom)

802.3 bt PoE++ applications compatible according to installation standards ISO/IEC 14763-2 (final draft) 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
- Batch number
- Measurement (length in meters).
- EUROCLASS Eca
- Velocity of propagation

4. PERFORMANCE AT 600 MHZ

Maximum attenuation (dB/100 m):.....44,8
Minimum NEXT (dB):.....85
PS NEXT (dB) :.....82
ACRF (dB / 100 m) :.....61
PS ACRF (dB / 100 m) :.....58
Return Loss (dB) :.....22

5. TECHNICAL AND MECHANICAL FEATURES

Catalogue number	0 338 90
Type	S/FTP
Type of sleeve	LSZH
Number of pairs	4
Assembly	Pairs
Diameter over insulation (mm)	1,38±0.07
Cable diameter (mm)	7,3 ± 0,2
Weight of cable (kg/km)	54,5
Min. bending radius when laying (mm)	58
AWG gauge*	23

* According to UL 444 ed.3 table 4

6. ELECTRICAL FEATURES AT 20°C

Catalogue number	0 338 90
Type	S/FTP
Maximum linear resistance (ohm/km)	95 *
DC dielectric strength	1 KV / 1 min *
Minimum insulation resistance (Mohm.km)	5000
Minimum propagation speed	>79 %
Characteristic impedance at 100 MHz	100 ±5Ω

* According to standard IEC 61156-5

7. ORDERING INFORMATION

Catalogue number	0 338 90
Type	S/FTP
Colour	Black Ral 9005
Pack (m)	500
Packaging	Reel

8. ENVIRONMENTAL FEATURES

Transport temperature: 0 at + 50 °C
Storage temperature before use: 10°C during 24h (if stock ≤ 5°C)
Usage temperature: – 20 to + 60 °C

Fire rating:
IEC 60332-1-2, EN 60332-1-2
Smoke density : IEC 61034-2, EN 61034-2
Toxicity of fire effluent : IEC 60754-2, EN 60754-2

EUROCLASS EN 13501-6 = Class Eca

9. STANDARDS AND APPROVALS

Cat 7, 600 MHz
EN 50173-1
EN 50288-4-1
ISO/IEC 11801 (ed. 2.2)
IEC 61156-5
IEEE 802.3bt : PoE++

10. RECOMMENDATIONS OF INSTALLATION

The cable is rated for indoor use and can tolerate limited outdoor conditions and but should not be submerged.
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 indoor/ outdoor cables require special attention during installation due to lightning (and fire rating and shield continuity for the cable). Requirements and guidance can be found in:
- ISO/IEC 14763, EN50174, BICSI guidelines or equivalent local standards for general methods.
- Assessment and protection for lighting in IEC 62305 series or equivalent local standards

Entrance Through a Wall

Figure 6.13 shows a cable entrance sleeve placed through a building wall. When this method is used, ensure that the raceway slopes downward toward the outside of the building. Seal the entrance sleeve from rodents, moisture, and insects with the appropriate material.

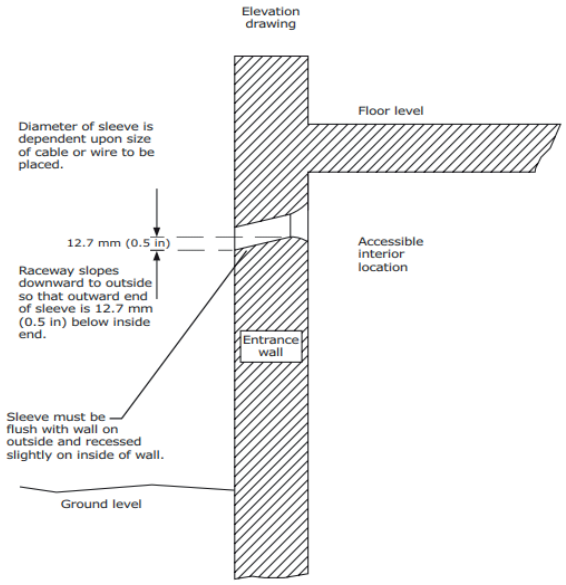



Figure 6.13
Cable entrance sleeve through a wall