Arteor™
LCS² Cat. 6 RJ 45 socket

1. GENERAL CHARACTERISTICS
Category 6 RJ 45 socket for high speed transmission (Gigabit Ethernet).

<table>
<thead>
<tr>
<th>Désignation</th>
<th>Number of modules</th>
<th>UTP</th>
<th>FTP</th>
<th>STP</th>
</tr>
</thead>
<tbody>
<tr>
<td>RJ 45 socket Cat. 6 UTP white</td>
<td>1</td>
<td>5 723 02</td>
<td>5 734 28</td>
<td></td>
</tr>
<tr>
<td>RJ 45 socket Cat. 6 UTP magnesium</td>
<td>1</td>
<td>5 728 02</td>
<td>5 736 28</td>
<td></td>
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<tr>
<td>RJ 45 socket Cat. 6 UTP magnesium green cover</td>
<td>1</td>
<td>5 728 55</td>
<td></td>
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<tr>
<td>RJ 45 socket Cat. 6 UTP orange cover</td>
<td>1</td>
<td>5 728 54</td>
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<tr>
<td>RJ 45 socket Cat. 6 FTP white</td>
<td>1</td>
<td>5 723 22</td>
<td></td>
<td></td>
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<tr>
<td>RJ 45 socket Cat. 6 FTP magnesium</td>
<td>1</td>
<td>5 728 22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prise RJ 45 Cat. 6 STP blanc</td>
<td>1</td>
<td>5 723 23</td>
<td>5 734 34</td>
<td></td>
</tr>
<tr>
<td>RJ 45 socket Cat. 6 STP magnesium</td>
<td>1</td>
<td>5 728 23</td>
<td>5 736 34</td>
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<tr>
<td>RJ 45 socket Cat. 6 UTP white</td>
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<td>5 734 74</td>
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<tr>
<td>RJ 45 socket Cat. 6 UTP magnesium</td>
<td>2</td>
<td>5 728 14</td>
<td>5 736 24</td>
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<tr>
<td>RJ 45 socket Cat. 6 FTP white</td>
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<td>5 734 76</td>
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<tr>
<td>RJ 45 socket Cat. 6 FTP magnesium</td>
<td>2</td>
<td>5 728 16</td>
<td>5 736 76</td>
<td></td>
</tr>
</tbody>
</table>

2. PRESENTATION

Identification number
UTP: SA51
FTP: SA52
STP: SA53

Category colour code: Cat.6 blue

Colour code and Contact number

1 2
3. REAL LIFE SCENARIOS
Mechanisms can be flush-mounted or surface-mounted.

* not supplied with the mechanism

Unlocking

4. TECHNICAL CHARACTERISTICS

4.1 Material characteristics
Contacts: gold/nickel, minimum thickness of gold > 0.8 µm
Metal parts: bronze, nickel, platinum, gold
PBT polycarbonate
For STP products the body and the spreader are made of metal alloy with a copper-nickel coating.

4.2 Electrical characteristics
Breakdown voltage ≥ 1000 V
Contact resistance ≤ 20 mΩ
Insulation resistance ≥ 500 MΩ at 100 V DC
Compatible remote powering “PoE” up to 100w. (IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt)

4.3 Mechanical characteristics
Max. number of connections and disconnections: 5 without refreshing the wiring.
Endurance: 2500 movements (plug insertion/withdrawal).
IK03

4.4 Climatic characteristics
Températures d'utilisation : - 40° C to + 70° C
Humid heat cycle 21 days

5. CONNECTION

6. OVERALL DIMENSIONS
Front view:

Technical data sheet: F00970EN/04
Updated: 07/10/2019
Created: 24/09/2009
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LCS² Cat. 6 RJ 45 socket

6. OVERALL DIMENSIONS (cont.)

Side view:

7. USUAL CONNECTION OF RJ 45 (cont.)

RJ 45 connectors are equipped with a locking nut that does not require the use of a specific tool and which enables re-cabling in the event of error.

This system allows the wire pairs to be spread easily before mounting them on the connector.

7. USUAL CONNECTION OF RJ 45

Accepts the following cable connectors:

- RJ11 (4 contacts), RJ12 (6 contacts), RJ45 (9 contacts).

Double colour code EIA - TIA 568 A and B on terminals:

- UTP 8 contacts
- FTP 9 contacts
- STP 9 contacts 360° screen

Conductors supported:

- Single-wire: 0.5 to 0.65 mm, AWG 22 to 25
- Multiple-wire: AWG 26
- Polyethylene conductor insulation: max Ø with insulation 1.58 mm

8. STANDARDS AND APPROVALS

Compliant with standards:
- ISO/IEC 11801 Edition 2
- CENELEC EN 50173-1 2007
- ANSI/TIA 568.2-D
- IEC series 60603-7
- IEEE 802.3bt : PoE++
9. PERFORMANCE

9.1 Component performance (RJ 45 connectors)

Return loss

Attenuation

NEXT (Near end Crosstalk Attenuation)

9.2 Performance of permanent link with F/UTP cable

Return loss

Attenuation

FEXT (Far end Crosstalk Attenuation)
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9. PERFORMANCE (cont.)

9.2 Performance of permanent link with F/UTP cable (cont.)

NEXT (Near end Crosstalk Attenuation)

PS NEXT (Power Sum NEXT)

ACR-N (Attenuation to Crosstalk Ratio)

9. PERFORMANCES (cont.)

9.2 Performance of permanent link with F/UTP cable (cont.)

ACR-F (Equal Level End Crosstalk Attenuation)