9.5 AIREA-Net Cabling in a Fixed Installation

1. As far as possible, try not to use patch fields or network sockets in order to avoid unnecessary transitions.
→ **It is best if you use Telegärtner MFP8 plugs directly on the installation cables.**

2. If patch fields and network sockets cannot be avoided, please use a BTR E-DAT module. Most patch fields are not suitable for the AIREA® system.

3. For wiring up an AIREA® system, CAT-5, CAT-6 or CAT-7 cables can be used. It is important that these are twisted pair cables (cables with pairs of twisted wires), with a large cross-section, low DC resistance and overall shield.

Requirements for twisted pair installation cables

	Minium requirements	Optimal
Resistance	< 75 Ohm/km	< 60 Ohm/km
Cable cross-section	AWG23	AWG22
Shielding	F/UTP	S/FTP

Up to an overall length of 50 m, an AWG24 installation cable can also be used. For longer lengths, an AWG23 cable should be the minimum.

Installation Materials – Article Numbers

RJ-45 Plugs:

Telegärtner MFP8-4x90 (Telegärtner Art. No. J00026A4000)
Telegärtner MFP8 IE (Telegärtner Art. No. J00026A5000)
Telegärtner MFP8 (Telegärtner Art. No. J00026A2000)

RJ-45 Connectors for Modules and Patch Fields:

BTR E-DAT Module (BTR Art. No. 130910-I)

AWG22 Cable:

Draka UC1200 SS22

AWG23 Cable:

Draka UC1000 SS23

AWG24 Cable: (only for an overall length of < 50 m):

Draka UC300 S24 (Colour: grey)