



Security Tech Germany



TÜRSTATION MODUVIS

**LEITFADEN ZUR
VERDRAHTUNG**



Bachmann

24
Birkenweg

- Schmidt
- Meier
- Schumacher
- Fischer
- Adler
- Keller
- Lindner



PROBLEMSTELLUNG

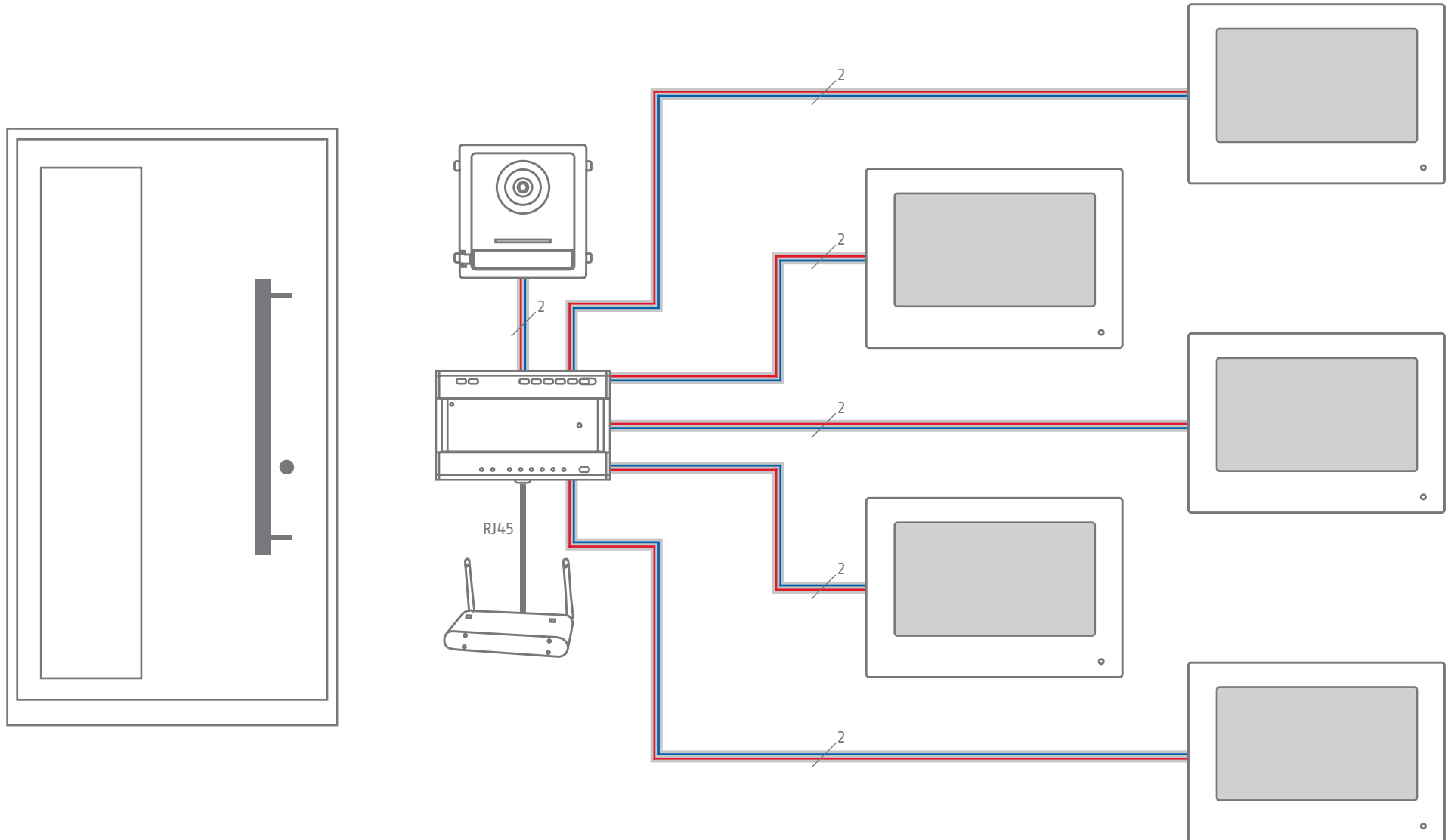
Wenn mehrere Geräte an einem TVHS20310 Konverter angebunden sind und diese alle über ein mehradriges, nicht geschirmtes Kabel übertragen werden, kommt es zu Interferenzen im Kabelübertragungsweg. Diese können die Signalübermittlung stören und so zu Problemen im Betrieb führen.

In den folgenden Schaubildern ist die optimale Verkabelung dargestellt. Es werden mögliche Sonderlösungen beschrieben und aufgezeigt, welche Art der Verkabelung nicht möglich ist.

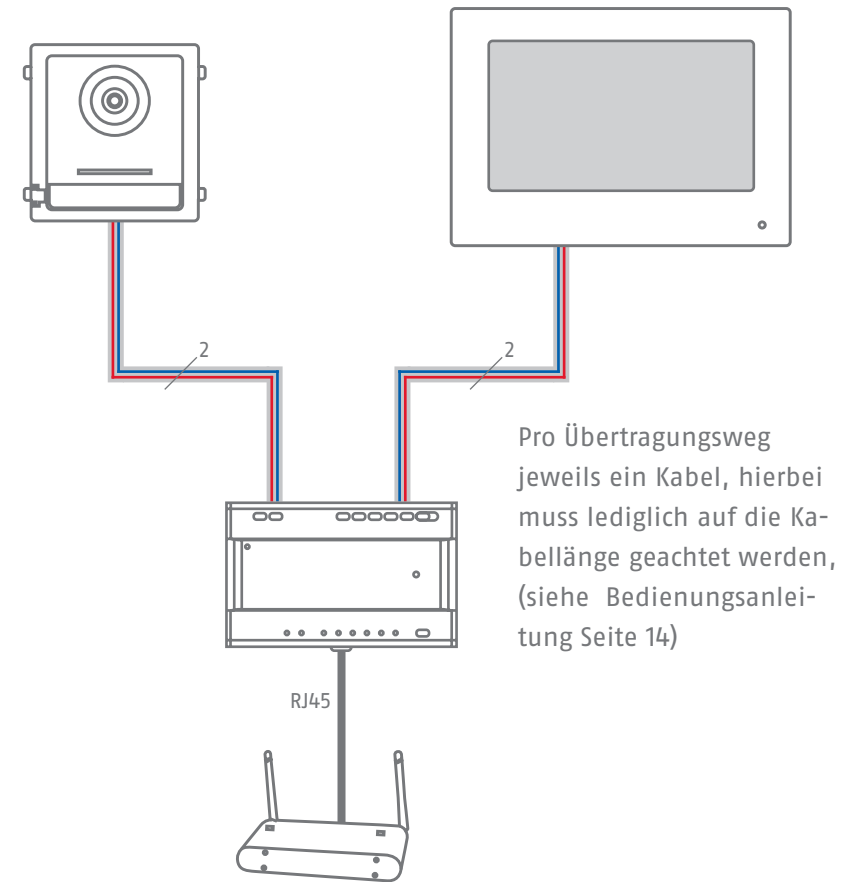
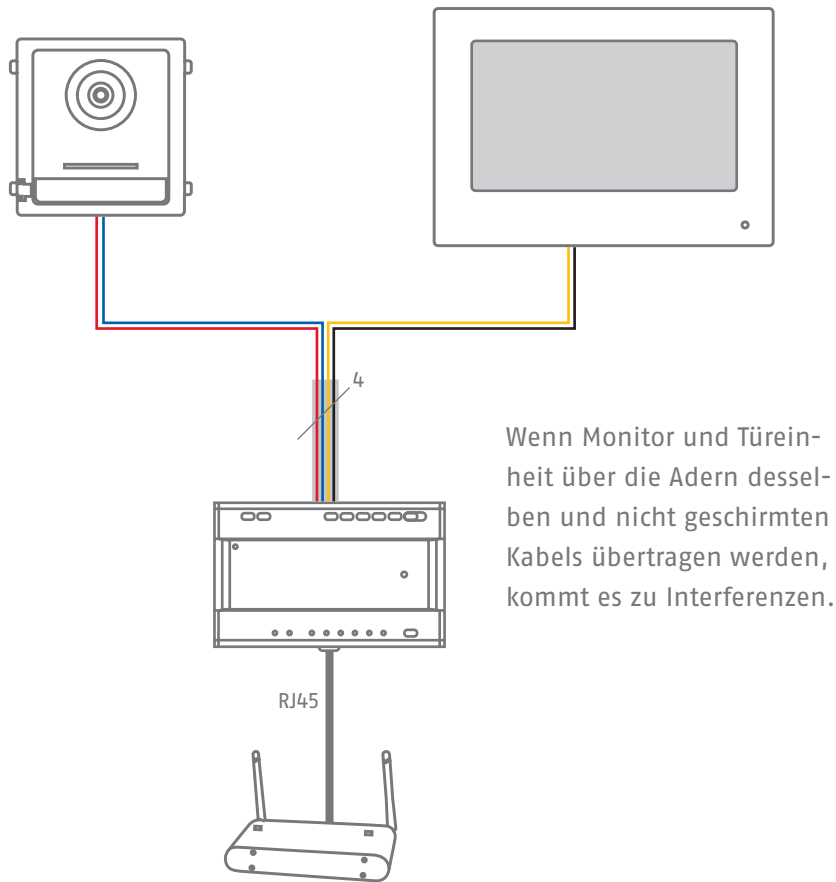


ORDNUNGSGEMÄSSE INSTALLATION

Sternförmige Verkabelung – ein separates Kabel pro Komponente



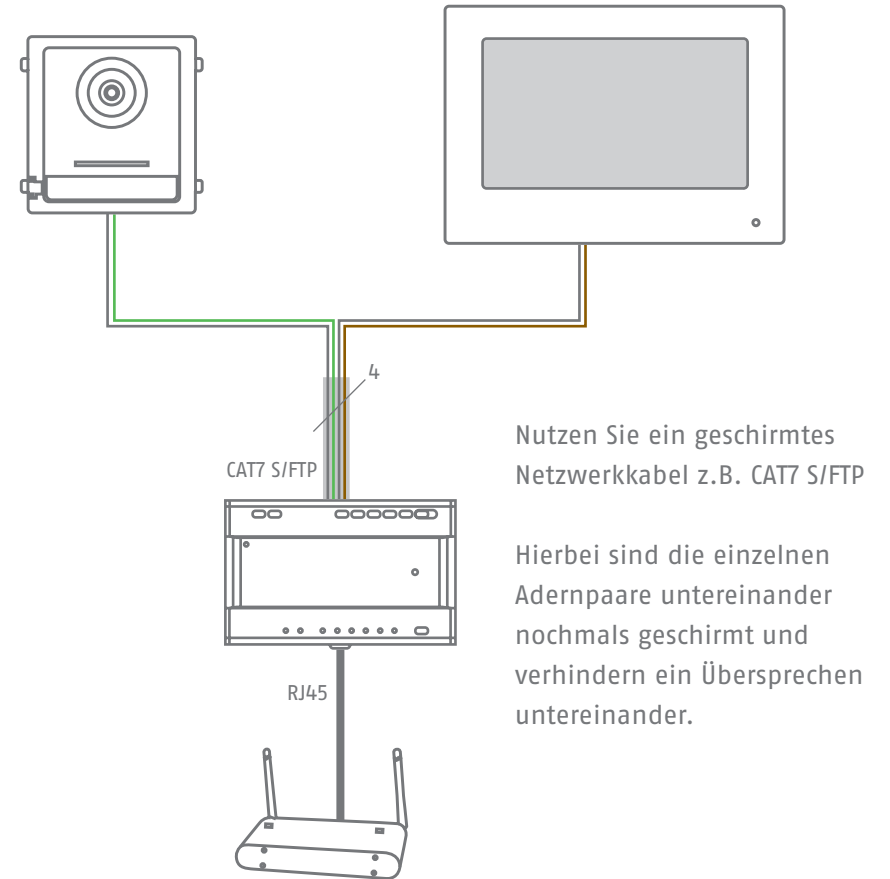
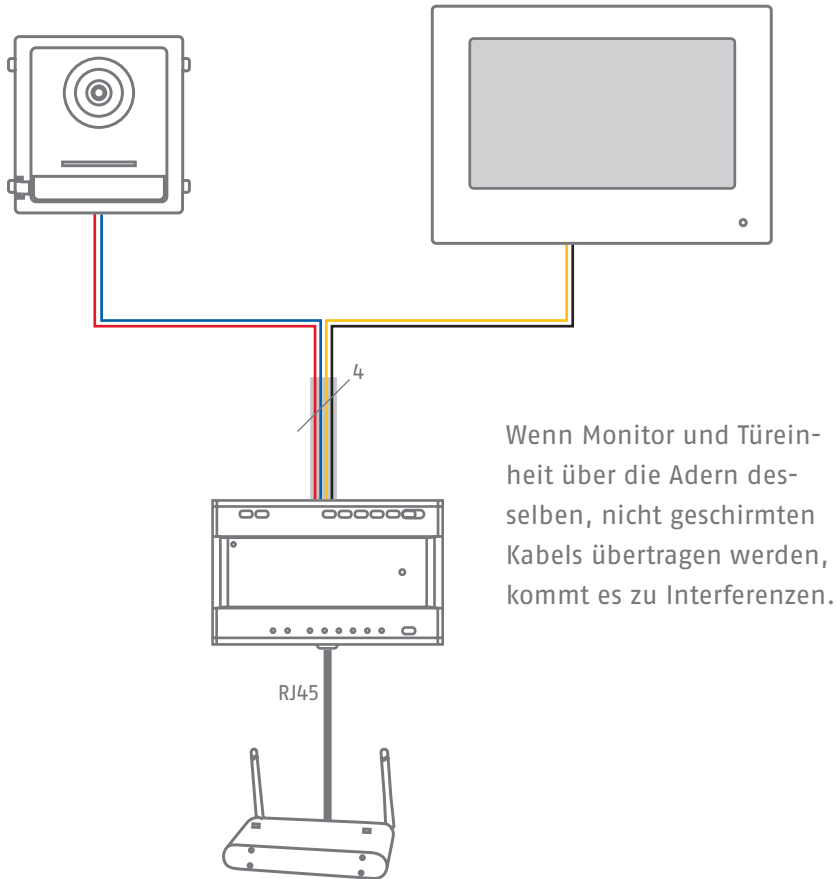
PROBLEMATISCHE INSTALLATION



Kabeltyp	24AWG (10Ω pro 100m)	20AWG (7Ω pro 100m)	18AWG (4Ω pro 100m)
Kabelweg			
TVHS20310/ TVHS20310	Maximal 60 m	Maximal 60 m	Maximal 60 m
TVHS20010/ TVHS20310	Maximal 35 m	Maximal 60 m	Maximal 60 m
TVHS20210/ TVHS20310	Maximal 35 m	Maximal 60 m	Maximal 60 m

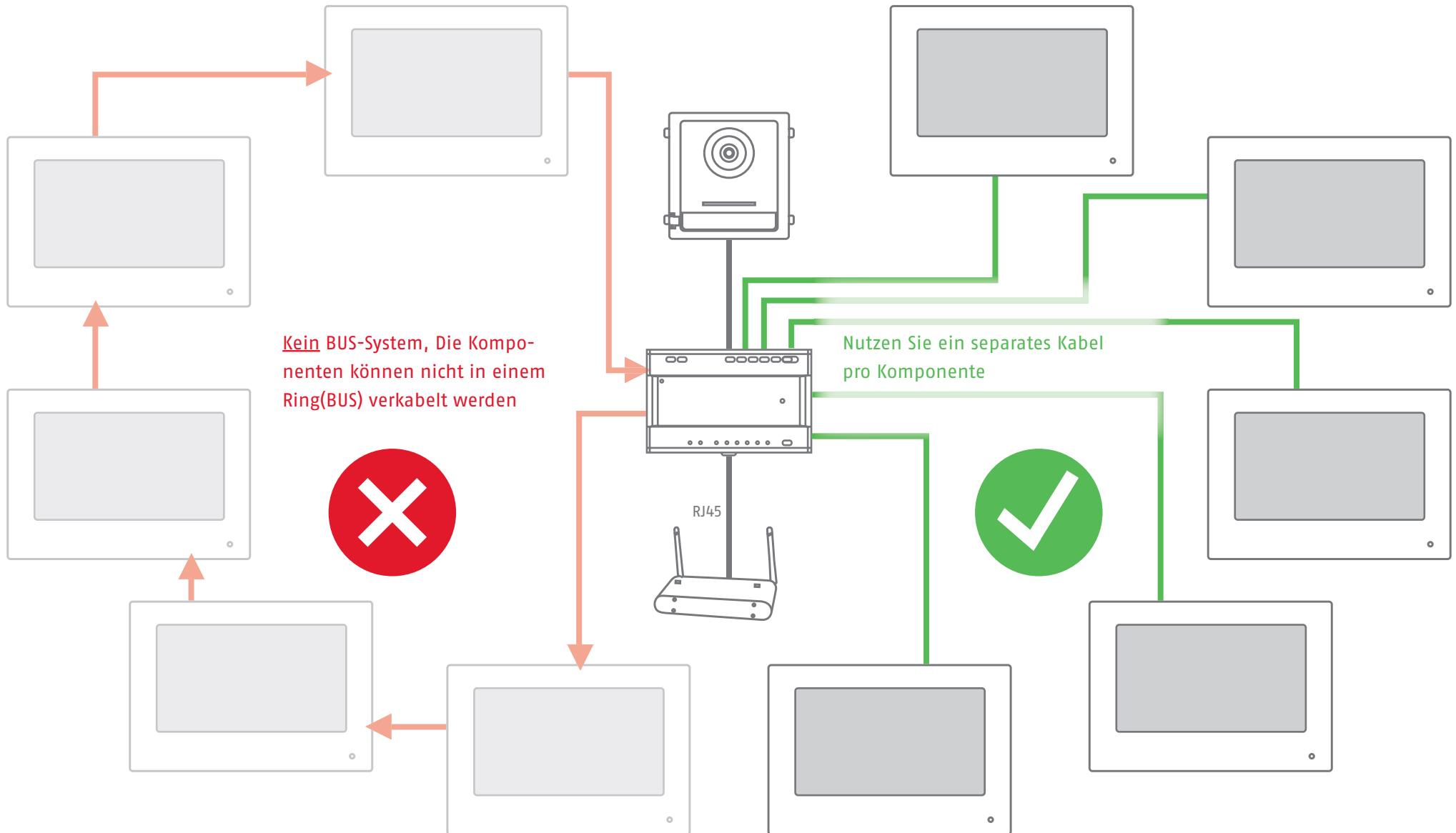


PROBLEMATISCHE INSTALLATION



ORDNUNGSGEMÄSSE INSTALLATION

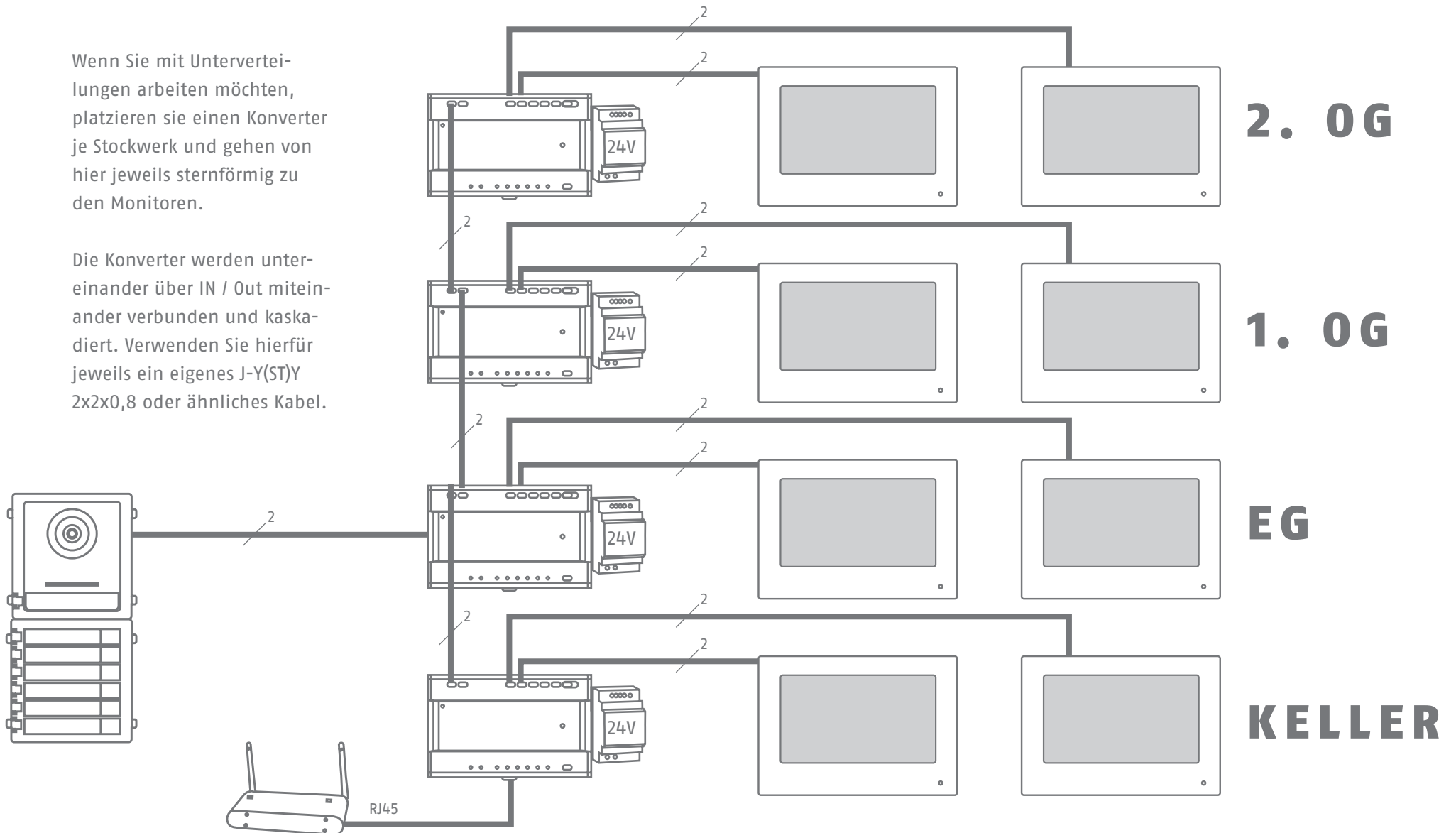
Sternförmige Verkabelung – ein separates Kabel pro Komponente



GRÖßERE INSTALLATIONEN MIT MEHREREN KONVERTERN

Wenn Sie mit Unterverteilungen arbeiten möchten, platzieren sie einen Konverter je Stockwerk und gehen von hier jeweils sternförmig zu den Monitoren.

Die Konverter werden untereinander über IN / Out miteinander verbunden und kaskadiert. Verwenden Sie hierfür jeweils ein eigenes J-Y(ST)Y 2x2x0,8 oder ähnliches Kabel.





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DOOR INTERCOM MODUVIS

WIRING GUIDELINES



POSSIBLE PROBLEMS

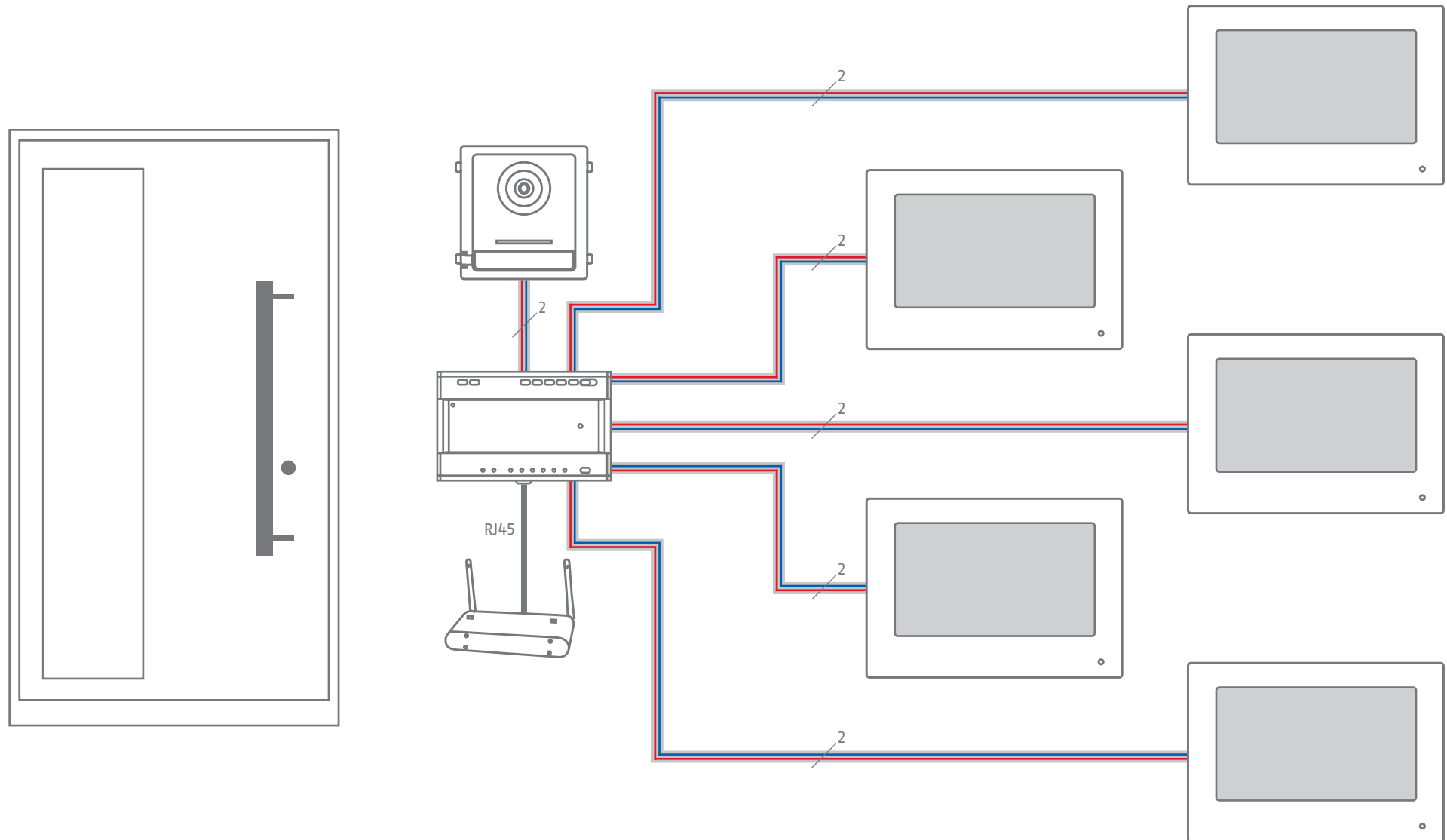
If several devices are connected to a TVHS20310 converter and all the channels will be transmitted in one non-shielded multi-core cable it will cause strong interference issues. These can disrupt the signal transmission and cause problems in the operation.

The optimal cabling is shown in the following diagrams. It will help to find the best cabling solution for your project and help to find out problems.

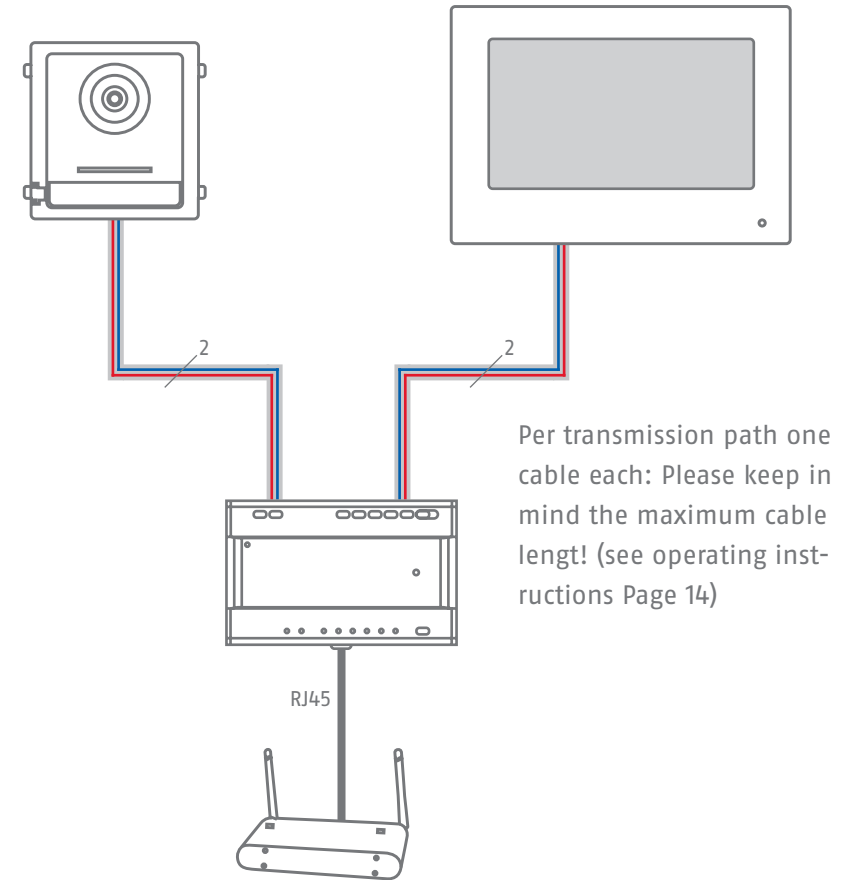
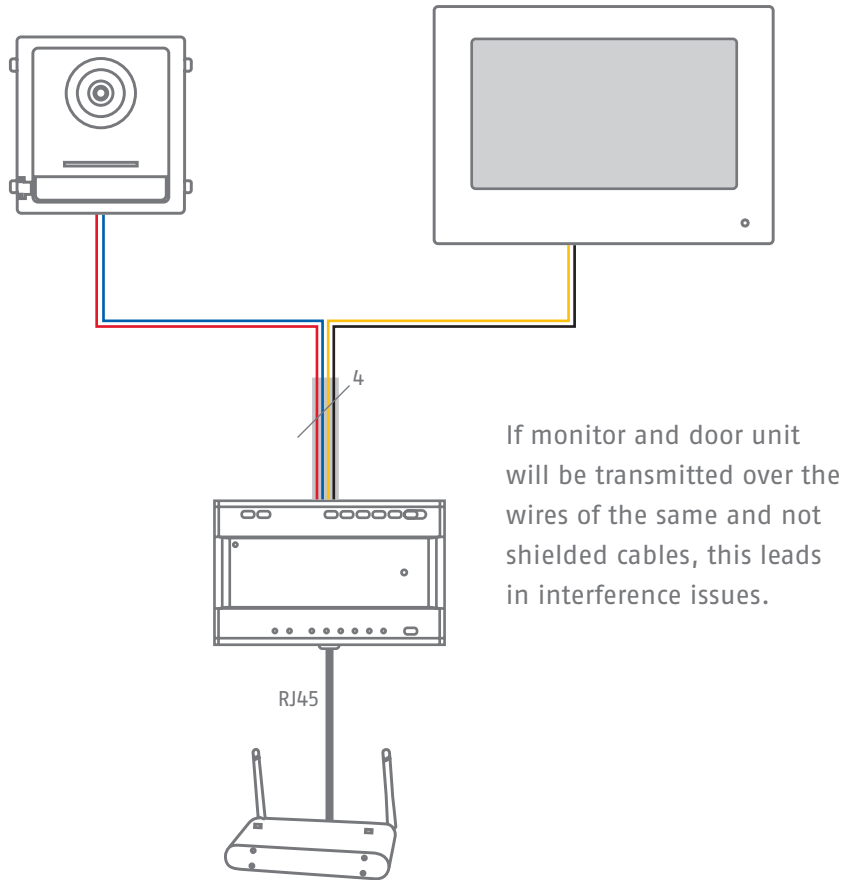


PROPER INSTALLATION

Star-shaped cabling - a separate cable for each device



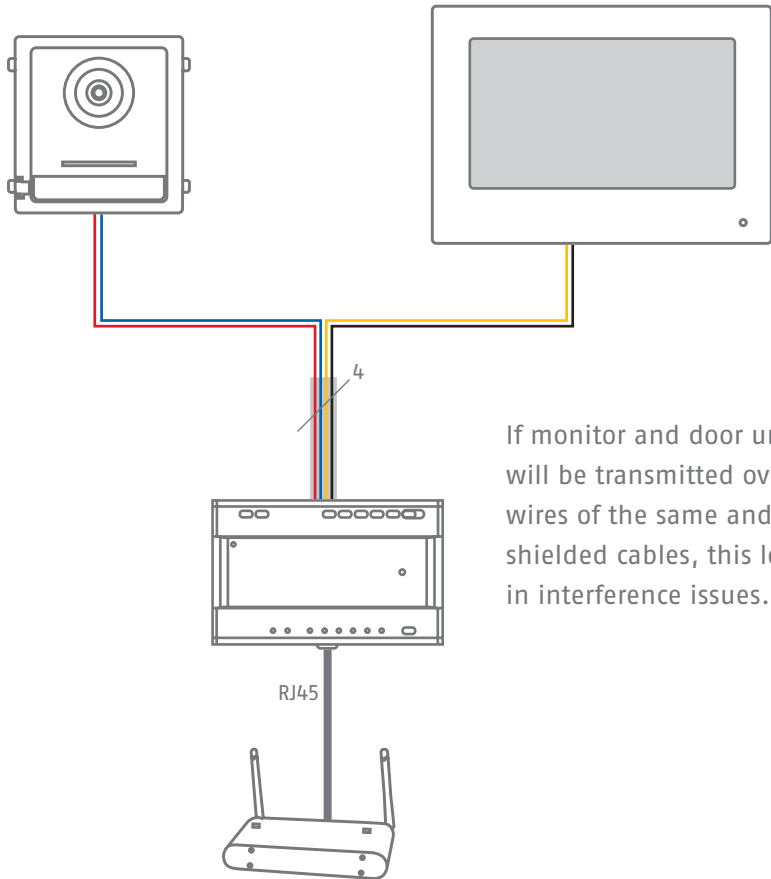
PROBLEMATIC INSTALLATION



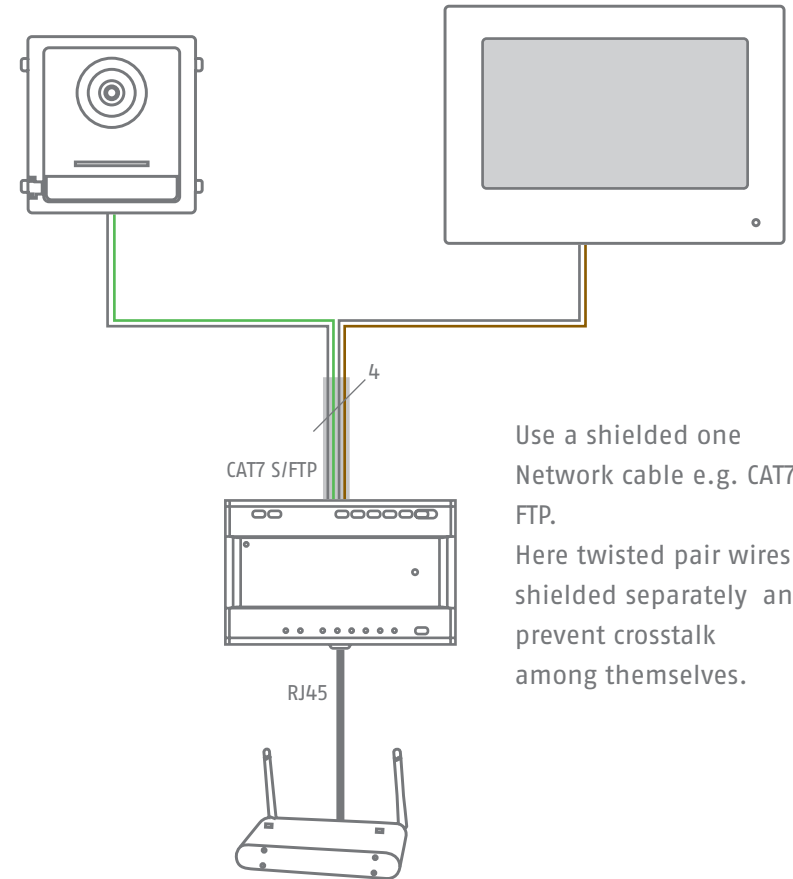
Cable type	24AWG (10Ω per 100m)	20AWG (7Ω per 100m)	18AWG (4Ω per 100m)
Cable run			
TVHS20310/ TVHS20310	Maximum 60 m	Maximum 60 m	Maximum 60 m
TVHS20010/ TVHS20310	Maximum 35 m	Maximum 60 m	Maximum 60 m
TVHS20210/ TVHS20310	Maximum 35 m	Maximum 60 m	Maximum 60 m



PROBLEMATIC INSTALLATION



If monitor and door unit will be transmitted over the wires of the same and not shielded cables, this leads in interference issues.

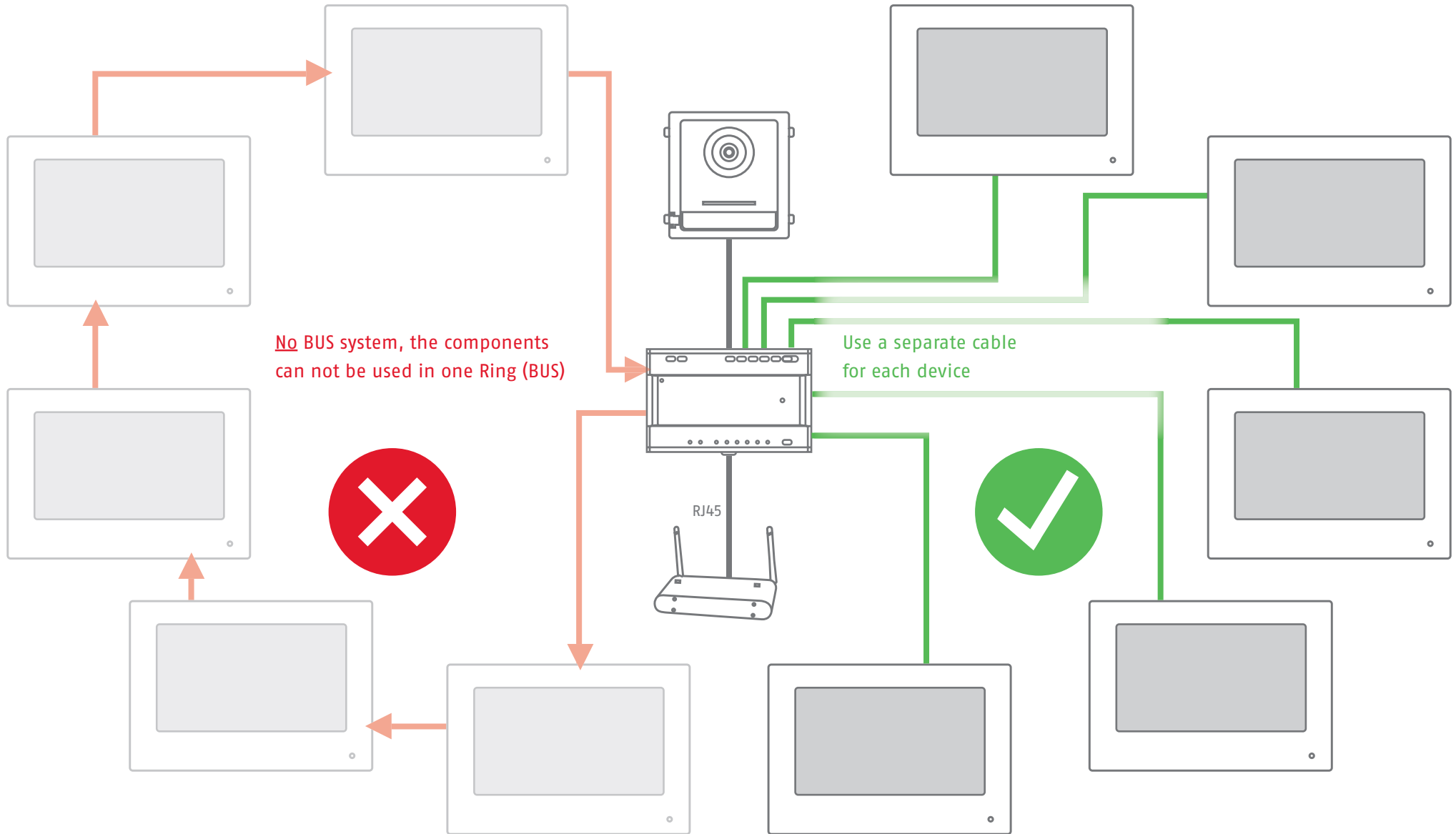


Use a shielded one Network cable e.g. CAT7 S / FTP. Here twisted pair wires are shielded separately and prevent crosstalk among themselves.



PROPER INSTALLATION

Star-shaped cabling - a separate cable for each device



LARGER INSTALLATIONS WITH MULTIPLE CONVERTERS

If you have subdivisions place a converter on each floor and then go to each device by a star-shaped installation. The converters are linked and cascaded among each other via IN / Out.

For linking the converters e.g you can use J-Y (ST) Y 2x2x0.8 or similar cable.

