Selection diagram

EXTERNAL BEZEL COLOUR

1 black   **9** satin chrome

FIXING RING

1 plastic fixing ring   **3** metal fixing ring

CONNECTION TYPE

REAR OUTPUT WITH FEMALE CONNECTOR

AAK
Cat. 5e,
continuous shielding

CAK
Cat. 6,
continuous shielding

REAR OUTPUT WITH CABLE

AN•
Cat. 5e,
no shielding
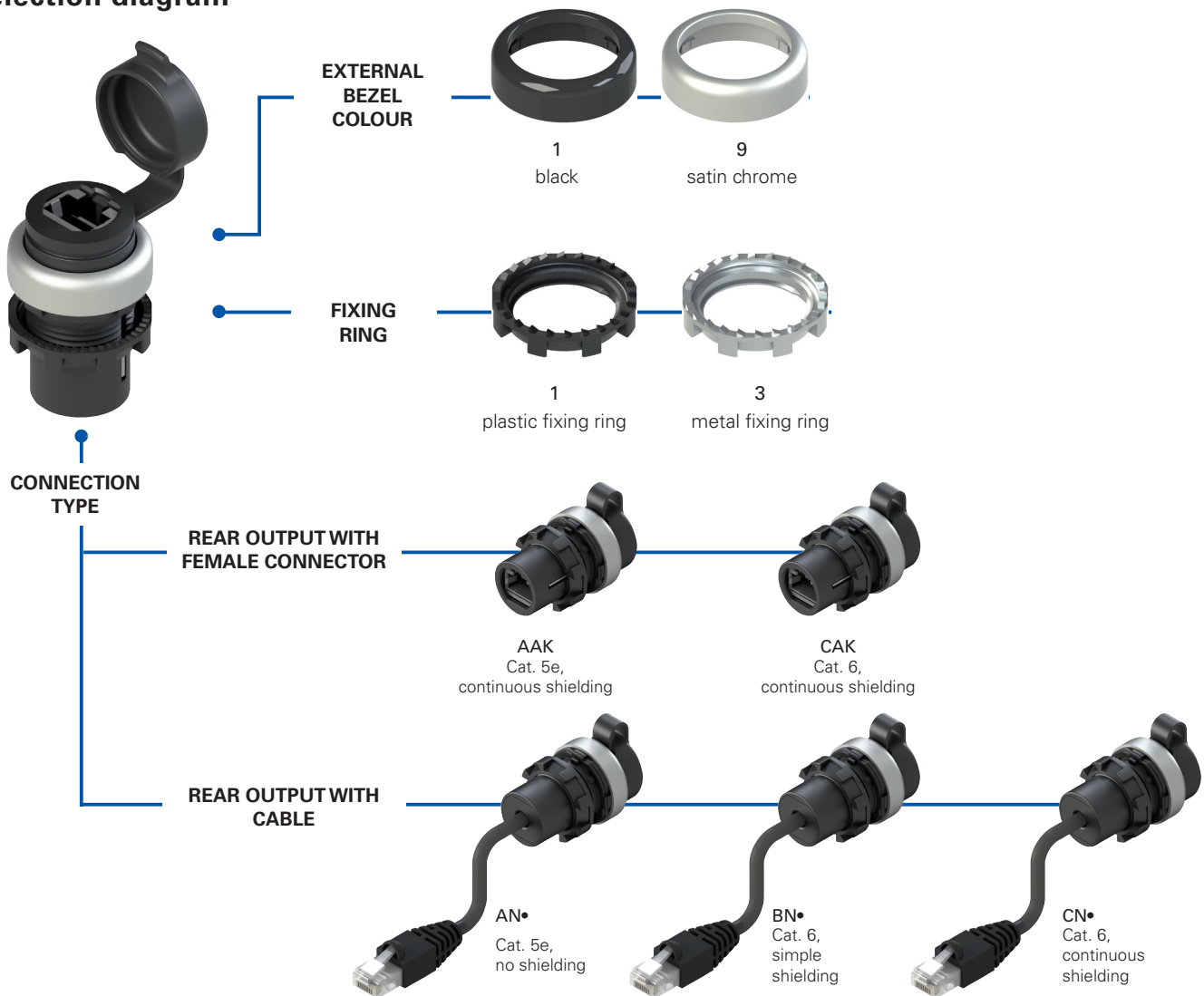
BN•
Cat. 6,
simple shielding

CN•
Cat. 6,
continuous shielding

Code structure

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

E2 1RJ459AAK

Fixing ring and shaped ring

1	plastic fixing ring (standard)
2	plastic fixing ring and shaped ring
3	metal fixing ring
4	metal fixing ring and shaped ring

External bezel colour

1	black (standard)
9	satin chrome (standard)

Connection type

AAK	Rear output with female connector, Cat. 5e, continuous shielding
CAK	Rear output with female connector, Cat. 6, continuous shielding
AN1	Rear output with 1 m long PVC cable, Cat. 5e, no shielding
AN1.5	Rear output with 1.5 m long PVC cable, Cat. 5e, no shielding
AN2.5	Rear output with 2.5 m long PVC cable, Cat. 5e, no shielding
BN1	Rear output with 1 m long PVC cable, Cat. 6, simple shielding
BN1.5	Rear output with 1.5 m long PVC cable, Cat. 6, simple shielding
BN2.5	Rear output with 2.5 m long PVC cable, Cat. 6, simple shielding
CN1	Rear output with 1 m long PVC cable, Cat. 6, continuous shielding
CN1.5	Rear output with 1.5 m long PVC cable, Cat. 6, continuous shielding
CN2.5	Rear output with 2.5 m long PVC cable, Cat. 6, continuous shielding

Technical data

General data
Connections: RJ45 connectors
Data transmission speed: Up to 1 Gb/s for Cat. 5e
Up to 10 Gb/s for Cat. 6
Protection degree: IP67 acc. to EN 60529
(with closed cap)
Ambient temperature: -25°C … +70°C
Tightening torque of the ring: 2 … 2.5 Nm
Utilization requirements: See page 163

In compliance with standards:
IEC 60947-1, IEC 60947-5-1, IEC 60204-1, EN 60947-1, EN 60947-5-1, EN 60204-1, EN IEC 63000, UL 508, CSA 22-2 No. 14

Compliance with the requirements of:
Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU.

Features approved by UL

Ratings: 30 Vac, 1.5 A (Supplied by class 2 or limited energy external power supply source)
With port cover in open position "For Use on a Flat Surface of a Type 1".
With port cover in close position "For Use on a Flat Surface of a Type 1, 4X, 12 and 13".
Tightening torque 2.0 Nm.

Please contact our technical department for the list of approved products.

Main features
• RJ45 connectors available for speeds of up to 10 Gb/s
• Protection degree IP67
• Version with socket/socket
• Version with socket / cable with male connector

Quality marks:

CE   c(UL)us   EAC

UL approval: E131787
EAC approval: RU C-IT.YT03.B.00035/19

General data

RJ45
The network socket uses RJ45 connectors, for Ethernet networks. Its particular structure makes it possible to bring the Ethernet connection outside the electrical panel, without necessarily needing it to be opened.
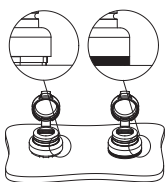
Metal fixing ring
The fixing ring in metal is particularly suitable for those applications which require tighter fitting of the panel-mounted device, such as for example in metal panels having holes without reference notches.

Protection degree IP67
IP67 These devices are designed to be used under the toughest environmental conditions, and they pass the IP67 immersion test acc. to EN 60529. They can therefore be used in all environments where the maximum degree of protection is required for the housing.

Transmission speed (Cat. 6) and shielding
The RJ45 network sockets comply with the latest data transmission standards and are suitable for transmission speeds of up to 10 Gb/s, which is ideal for modern high-tech applications, where machinery must be connected to corporate networks and be able to process large files. The RJ45 sockets are also available with a full shielding option for front and rear connection or with simple shielding on the output cable (the latter only for versions with rear cable connection).Effective internal shielding is useful in the event of any electromagnetic interference, which can disturb or compromise the quality of data transmission.

Shaped ring
The shaped ring can be used when no label holder or other devices are applied; it prevents dirt and other residues from settling between the socket and the panel or housing.
This turns out to be particularly useful in the sectors where high standards of cleanness and hygiene are required.

Integrated protection cap
The protection cap integrated in the device ensures maximum resistance, preventing any water or dirt to get inside.
The cap remains attached to the device even when it is not fastened, avoiding it to get lost; besides, its design allows the mounting of label holders.

Dimensions
All values in the drawings are in mm

a = 1 / 1.5 / 2.5 m