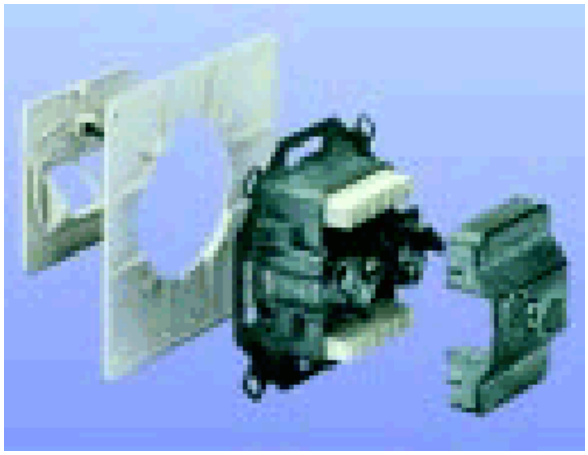
Rutenbeck Network Connection Box Cat. 5, shielded

1-gang, 1 x 8-pole	Order No.: 0180 00
2-gang, 2 x 8-pole	Order No.: 0178 00
1-gang, (especially for channel construction)	Order No.: 0802 00
2-gang, (especially for channel construction)	Order No.: 0805 00

Cable installation



Remove transparent cover for inscription strip and screw off central section

Fit stop aid

Screw off back cover
and release cable clamps

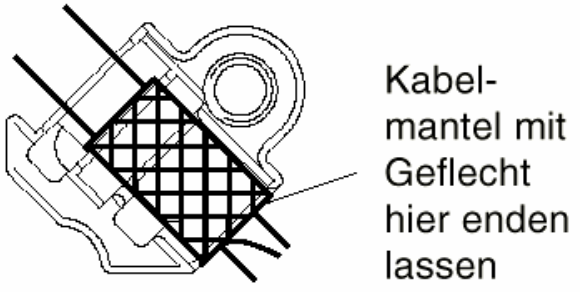
Strain relief and shield connection for cable dia. > 6 mm

Shorten and prepare cable. **For plastered-in cables, ensure a minimum length of approx. 140 mm up to wall!**

Lay in cable with plastic sheath up to stop

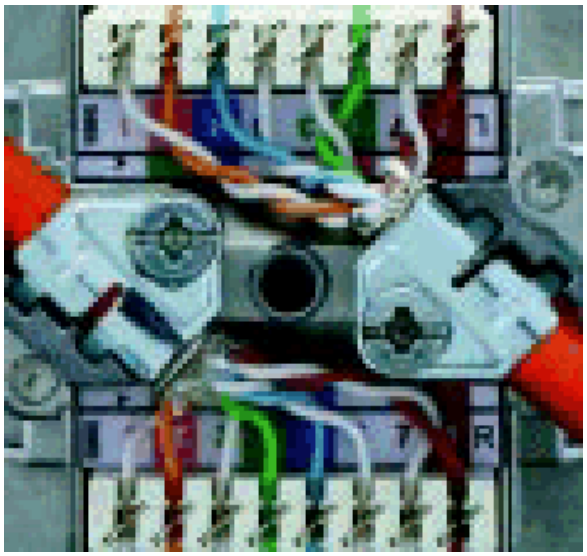
Screw on cable clamp

Strain relief and shield connection for cable dia. < 6 mm



Push prepared cable end forward up to edge of cable clamp when laying into the box so that braiding lies under shield tap.

Lay on wires



Lay on wires as shown and in accordance with recommendation for colour code below; do not pull individual wires taut when doing so

Important:
Retain twisting of pairs as long as possible (max. 13 mm without twisting)!

Observe same assignment according to colour code in patch panel and on box!

Press into terminals with LSA-Plus lay-on tool AW2 (wires are simultaneously shortened)

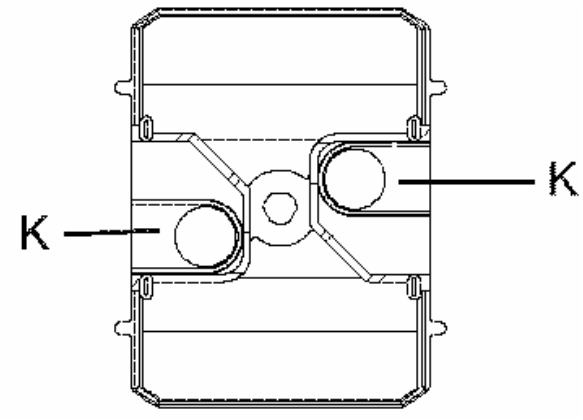
Fit cover while laying wires not used in slots provided to protect them when screwing together

Remove stop aid

Mount box as usual in parapet duct or in flush-mounted box

If necessary, fill out inscription strip, lay in and engage transparent cover

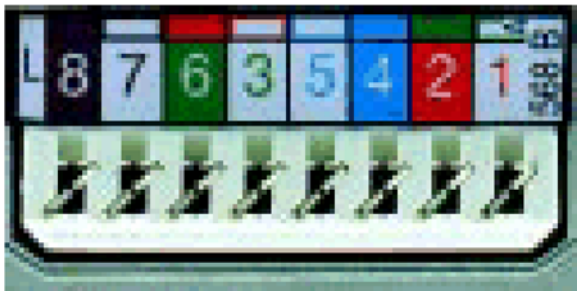
Cable dia. > 10 mm



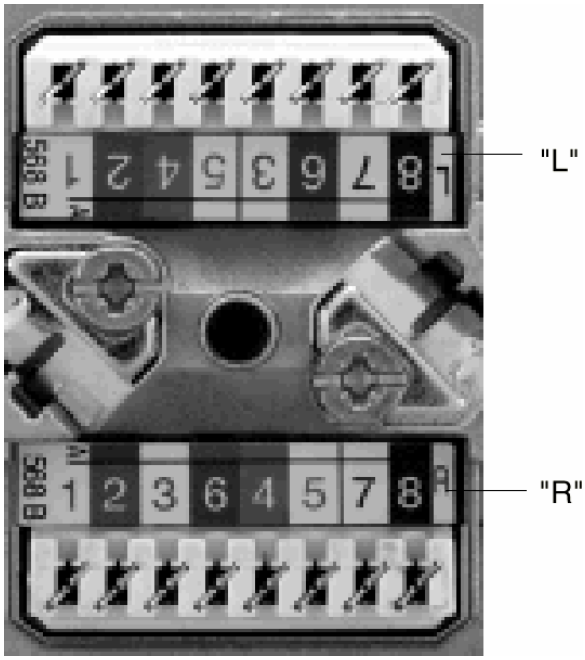
For cables with a diameter over 10 mm, we recommend opening the cable entries (K) in the cover at the marked points with a pair of diagonal cutters after laying on the wires

Connection assignment

UAE Cat. 5-8



UAE Cat. 5-8/8



"L" = Terminal block for left connection socket (when viewed from front while installed).

"R" = Terminal block for right connection socket (when viewed from front while installed).

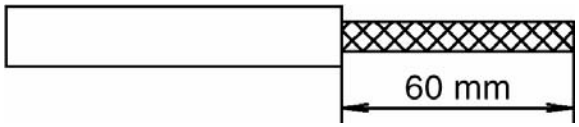
Colour code

Connection terminal	1	2	3	4	5	6	7	8
Colour code as per EIA/TIA-568-A	white/ green	green	white/ orange	blue	white/ blue	orange	white/ brown	brown
Colour code as per EIA/TIA-568-B	white/ orange	orange	white/ green	blue	white/ blue	green	white/ brown	brown

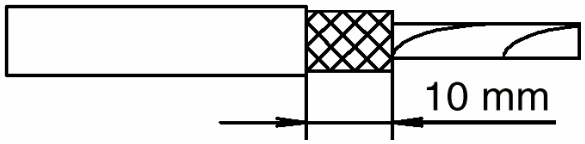
Other colour markings according to specifications of cable manufacturer are possible

Cable preparation

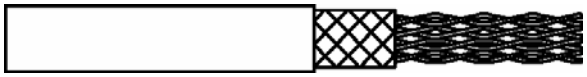
Cables with braided shield, cable dia. greater than 6 mm



Strip of approx. 60 mm of plastic sheath (individual packing serves as a scale here)

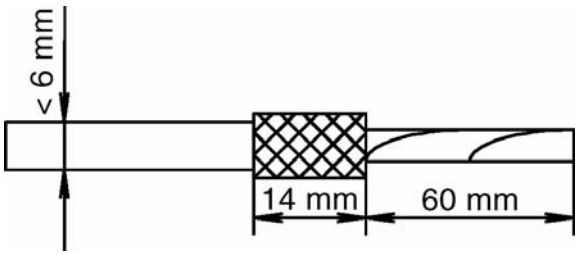


Push back braided shield and cut off all round so that approx. 10 mm extends from plastic sheath



Shorten shield foil and transparent polyester foil to same length if present

Cable dia. less than 6 mm

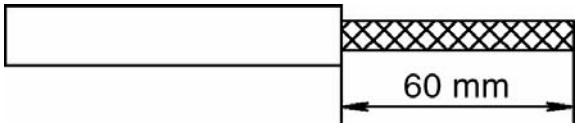


With thinner cables (under 6 mm dia.), braiding is pushed back over sheath and shortened to 14 mm

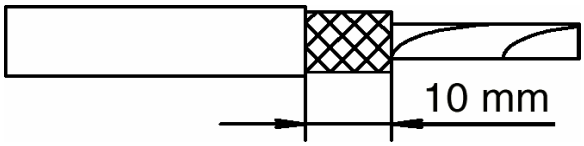
Filler wire

On all cables, filler wire is pulled back up to plastic sheath, wrapped around braiding and clamped in place under clamp

Cables with foil shield



Strip of approx. 60 mm of plastic sheath (individual packing serves as a scale here)



Cut off shield and plastic foil so that approx. 10 mm extends from plastic sheath

Handle filler wire like braided shield

Technical data

Mechanical Properties	**Data**
Design	DIN EN 60603-7
Connection technology	LSA-PLUS contacts for conductors with 0.4 to 0.63 mm dia. AWG 26...22 Outside diameter 0.7 to 1.1 mm 1 wire per contact Reusability ≥ 50 x
Shield housing	Diecast zinc
Shield connection	Contact clamp connected to additional strain relief and fastened with a common screw.
Material of contact spring of socket element	CuSn
Surface of contact spring of socket element	1.5 µm Ni/1.3 Au
Service life (insertion cycles) of socket element	> 2,500 cycles
Material of housing parts	PBTP, POM, ABS

Electrical Properties	**Data**
Rated voltage	max. 50 V DC
Operating current	max. 1 A at 50°C
Electrical strength	1,000 V DC
Insulation resistance	≥ 500 MΩ
Contact resistance	≤ 20 mΩ

Transmission-Related Properties			**Standard Specification**	**Measured**
Short-range crosstalk attenuation (NEXT)	at MHz	1	> 65 dB	88 dB
		4	> 65 dB	77 dB
		10	> 60 dB	70 dB
		16	> 56 dB	65 dB
		20	> 54 dB	63 dB
		31.3	> 50 dB	59 dB
		62.5	> 44 dB	51 dB
		100	> 40 dB	47 dB
Insertion loss	at MHz	1	< 0.1 dB	0.085 dB
		4	< 0.1 dB	0.075 dB
		10	< 0.1 dB	0.070 dB
		16	< 0.2 dB	0.070 dB
		20	< 0.2 dB	0.070 dB
		31.3	< 0.2 dB	0.075 dB
		62.5	< 0.3 dB	0.110 dB
		100	< 0.4 dB	0.130 dB
Operating loss	at MHz	1...20	> 23 dB	≥ 37 dB
		>20...100	> 14 dB	≥ 25 dB
Transfer impedance/shielding	at MHz	1	< 100 mΩ/m	< 50 mΩ/m
		10	< 200 mΩ/m	< 100 mΩ/m

Reference configurations comply with EN 55022 Class B and EN 50082-1
The technical data meet the requirements of Category 5 according to DIN EN 50173.

Warranty

We provide a warranty in accordance with the statutory requirements.

Please send the device postage paid with an error description to our central customer service centre.

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Dahlienstraße 12
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