10.1 Interface Cables 07 SK 90 R1, 07 SK 91 R1 and 07 SK 92 R1
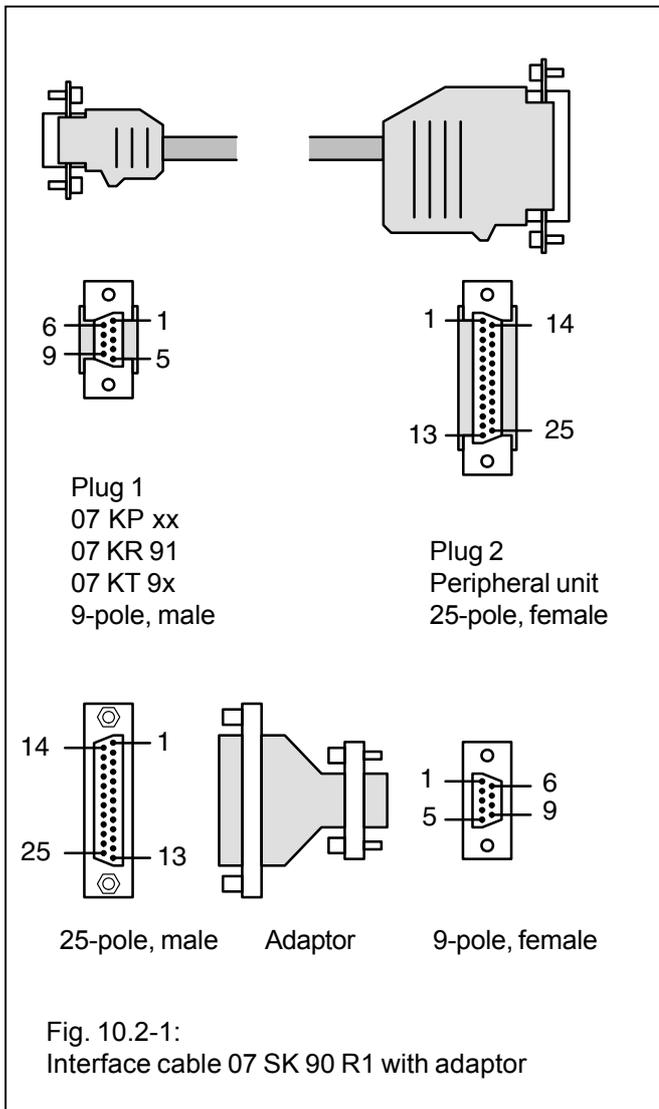
for connection of peripheral units to the 9-pole serial interfaces of the basic units 07 KR 91and 07 KT 9x (Advant Controller 31) and the communication processors 07 KP 62 and 07 KP 64 (ABB Procontic T200) and 07 KP 90 (Advant Controller 31)

10.1.1 Survey table

The following table shows, which interface cables can be used for connections between peripheral units and the 9-pole interfaces of the AC31 basic units and the T200 communication processors.

Connection from the processor unit interface	via the system cable (interface cable)	to the peripheral unit
07 KR 91 COM1 07 KT 9x COM1 07 KP 62 COM1	07 SK 90	PC programming unit
07 KR 91 COM1 07 KT 92 COM1 07 KT 93 COM1 07 KT 94 COM1 07 KP 62 COM1	07 SK 90	Operating station in active mode
07 KR 91 COM1 07 KT 92 COM1 07 KT 93 COM1 07 KT 94 COM1 07 KP 62 COM1 07 KP 64 CONSOLE 07 KP 90 CONSOLE	07 SK 90	Terminal
07 KR 91 COM1 07 KT 9x COM1 07 KT 9x COM2 07 KP 62 COM1 07 KP 62 COM2	07 SK 91	Operating station in passive mode
07 KR 91 COM1 07 KT 9x COM1 07 KT 9x COM2 07 KP 62 COM1 07 KP 62 COM2 07 KP 64 RCOM 07 KP 90 RCOM	07 SK 92	Modem with a standard interface, for signal names and pin assignment see chapter 10.4

10.2 Interface Cable 07 SK 90 R1 with adaptor

Plug 1
07 KP xx
07 KR 91
07 KT 9x
9-pole, male

Plug 2
Peripheral unit
25-pole, female

14 ─ 1
25 ─ 13
25-pole, male   Adaptor   9-pole, female

Fig. 10.2-1:
Interface cable 07 SK 90 R1 with adaptor

Intended purpose

The cable 07 SK 90 is used to connect a 9-pole interface connector of AC31 basic units or T200 communication processors with a peripheral unit in order to operate in programming or active mode (see 10.1.1 Survey table). If the peripheral has a 9-pole interface, the adaptor provided with (25-pole to 9-pole) can be employed for adaption.

Mechanical design

Plug 1

SUB-D plug, 9-pole male on the side of 07 KP 6x, 07 KR 91, 07 KT 9x. The housing is metal-plated, the shield is connected to the metal plate.

Plug 2

SUB-D plug, 25-pole female, on the side of the peripheral unit. The plugs are mounted to both interfaces by means of screws.

Cable type

LICYCY 5 x 0.14/15

Adaptor provided

25-pole male/9-pole female for connection of peripheral units with 9-pole interfaces (male).

Technical data

Length	5 m
Weight	220 g
Order number	GJR5 2502 00 R1

				Peripheral unit		Peripheral unit
07 KP xx	9-pole	25-pole		25-pole male		9-pole male
07 KR 91	male	female				
07 KT 9x						

PGND	1		2	TxD
TxD	2		3	RxD
RxD	3		4	RTS
RTS	4		5	CTS
CTS	5		6	DSR
PROG	6		7	SGND
SGND	7		8	CD
0V out	8		20	DTR
+5V out	9			

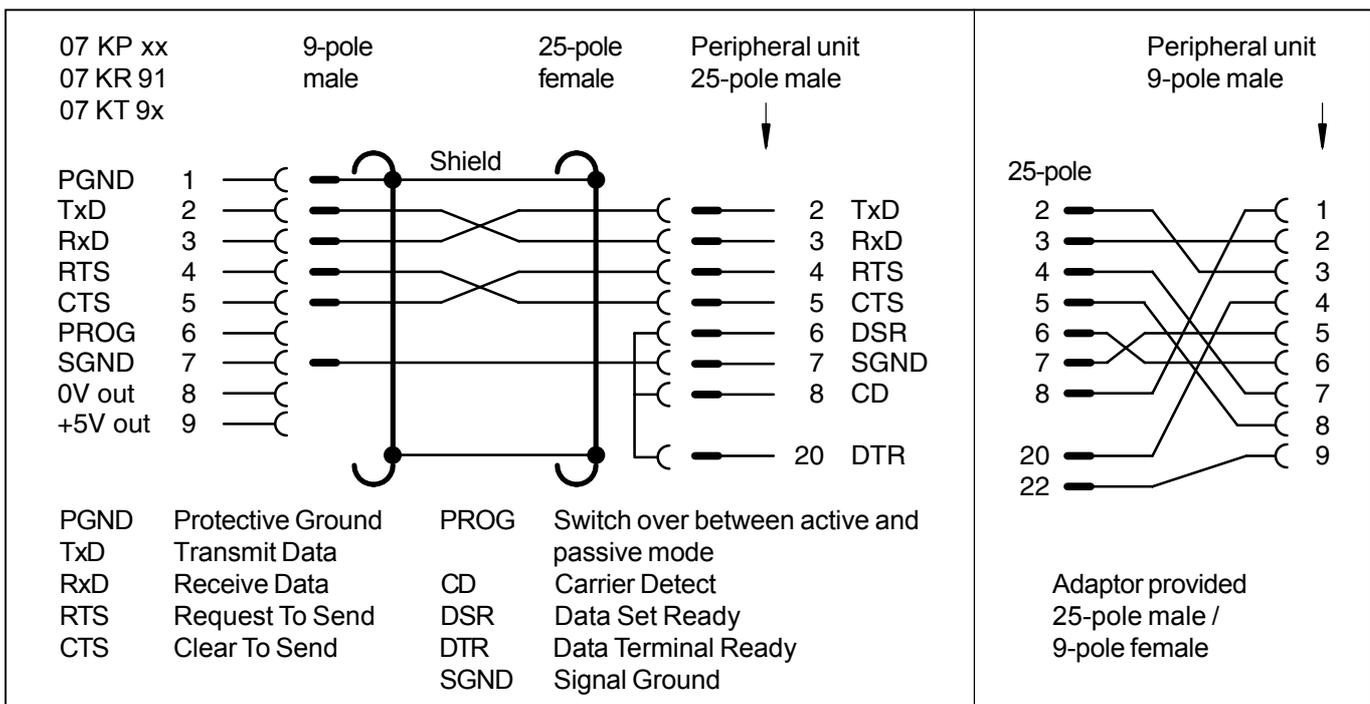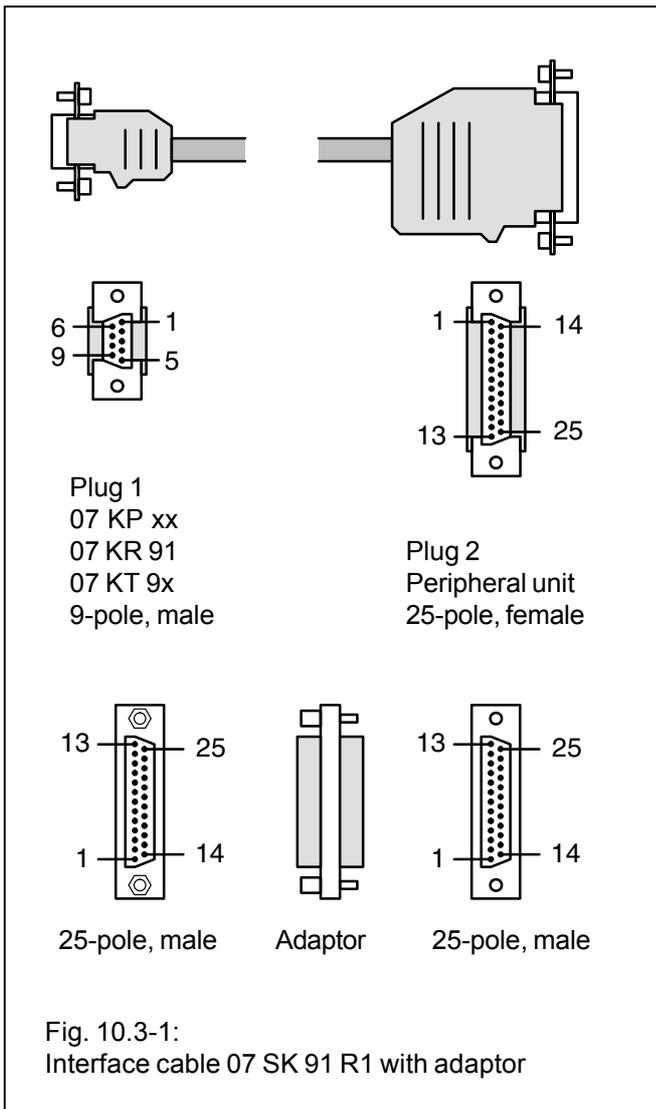|			
PGND	Protective Ground	PROG	Switch over between active and passive mode
TxD	Transmit Data		
RxD	Receive Data	CD	Carrier Detect
RTS	Request To Send	DSR	Data Set Ready
CTS	Clear To Send	DTR	Data Terminal Ready
		SGND	Signal Ground

Adaptor provided
25-pole male /
9-pole female

Fig. 10.2-2:   Terminal assignment of the 07 SK 90 interface cable and the adaptor provided with

10.3   Interface cable 07 SK 91 R1 with adaptor

Fig. 10.3-1:
Interface cable 07 SK 91 R1 with adaptor

Intended Purpose

The cable 07 SK 91 is used to connect a 9-pole interface connector of AC31 basic units or T200 communication processors with a peripheral unit in order to operate in MMC mode or passive mode (see 10.1.1 Survey table). If the peripheral unit has a 9-pole connector, a commercially available adaptor (25-pole to 9-pole) has to be employed for adaption.

Mechanical design

Plug 1

SUB-D plug, 9-pole male on the side of 07 KP 6x, 07 KR 91, 07 KT 9x. The housing is metal-plated, the shield is connected to the metal plate.

Plug 2

SUB-D plug, 25-pole female on the side of the peripheral unit. The plugs are mounted to both interfaces by means of screws.

Cable type

LICYCY 5 x 0.14/15

Adaptor provided

25-pole male/25-pole male for connection of peripheral units with 25-pole interfaces (female).

Technical data

Length	5 m
Weight	220 g
Order number	GJR5 2503 00 R1

07 KP xx	9-pole	25-pole	Peripheral unit		Peripheral unit
07 KR 91	male	female	25-pole male		25-pole female
07 KT 9x					

PGND	Protective Ground	PROG	Switch over between active and passive mode
TxD	Transmit Data		passive mode
RxD	Receive Data	CD	Carrier Detect
RTS	Request To Send	DSR	Data Set Ready
CTS	Clear To Send	DTR	Data Terminal Ready
		SGND	Signal Ground

Adaptor provided
25-pole male /
25-pole male
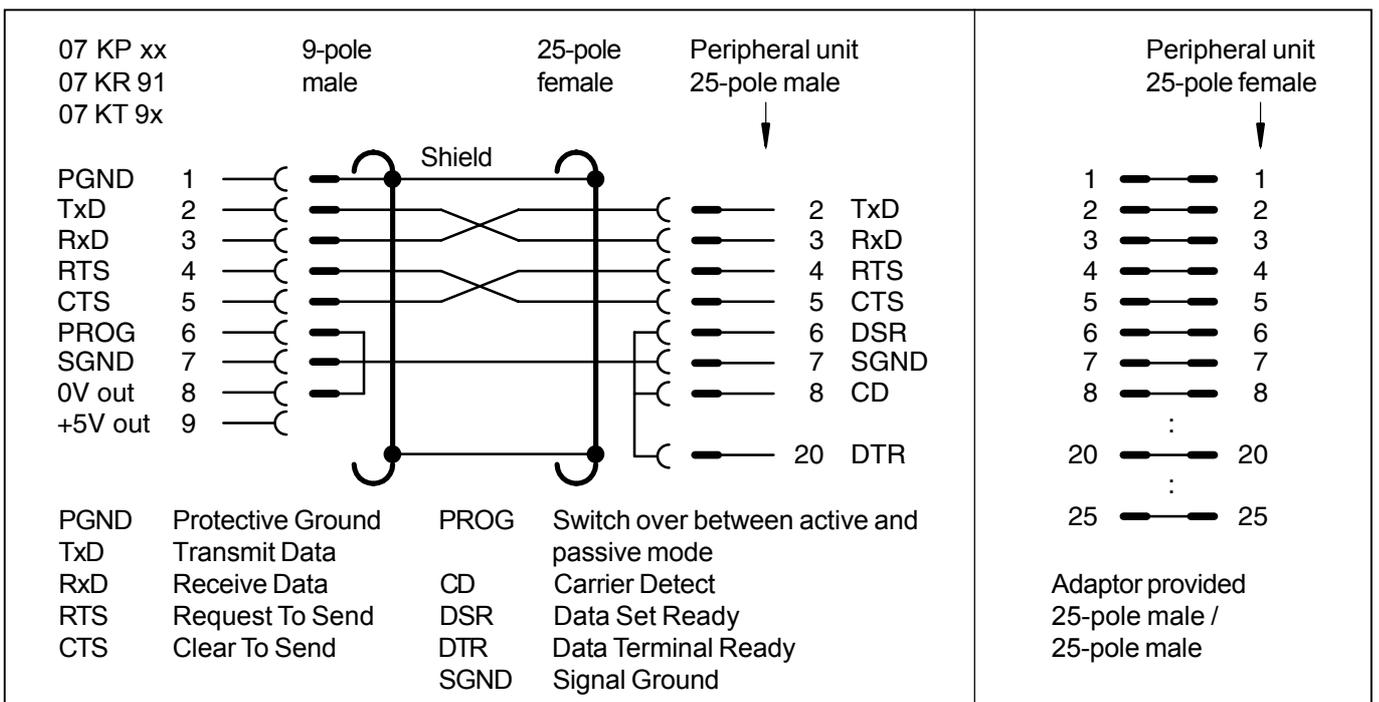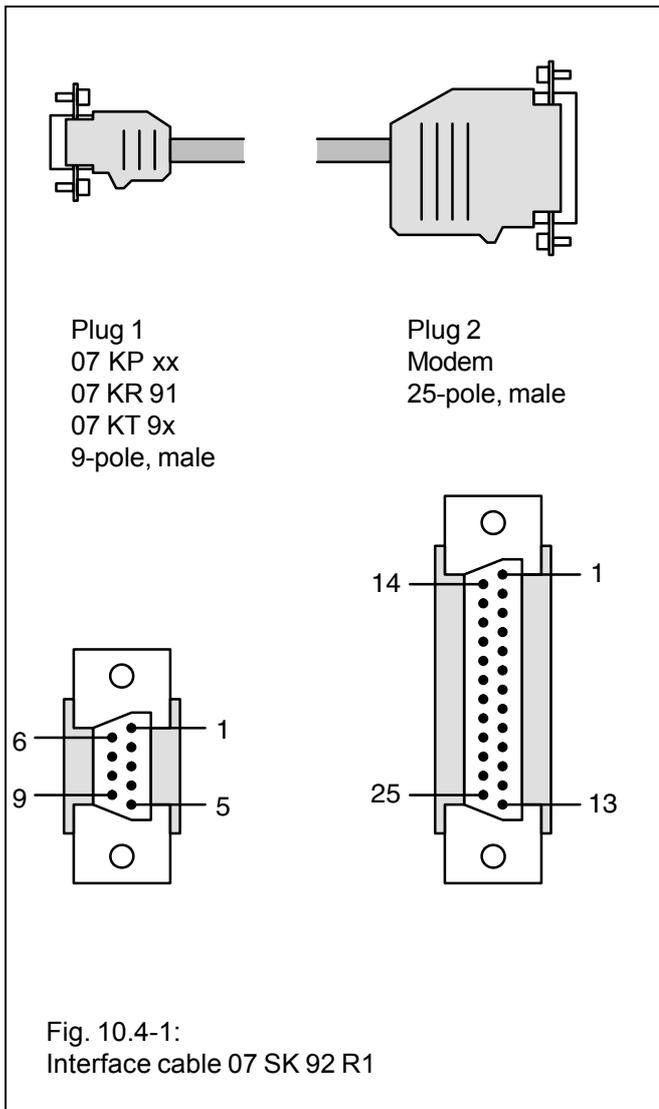
Fig. 10.2-3:   Terminal assignment of the 07 SK 91 interface cable and the adaptor provided with

10.4 Interface cable 07 SK 92 R1

Plug 1
07 KP xx
07 KR 91
07 KT 9x
9-pole, male

Plug 2
Modem
25-pole, male

Fig. 10.4-1:
Interface cable 07 SK 92 R1

Intended purpose

The cable 07 SK 92 is used to connect a 9-pole interface connector of AC31 basic units or T200 communication processors to a modem with a standard interface (see 10.1.1 Survey table). If another modem has to be connected, the cable has to be modified possibly.

Mechanical design

Plug 1

SUB-D plug, 9-pole male on the side of 07 KP 6x, 07 KR 91, 07 KT 9x. The housing is metal-plated, the shield is connected to the metal plate.

Plug 2

SUB-D plug, 25-pole male on the side of the modem. The plugs are mounted to both interfaces by means of screws.

Cable type

LICYCY 5 x 0.14/15

Technical data

Length	5 m
Weight	220 g
Order number	GJR5 2504 00 R1

07 KP xx 07 KR 91 07 KT 9x	9-pole male		25-pole male	Modem

		Shield		
PGND	1			
TxD	2			2 TxD
RxD	3			3 RxD
RTS	4			4 RTS
CTS	5			5 CTS
				6 DSR
SGND	7			7 SGND
				20 DTR

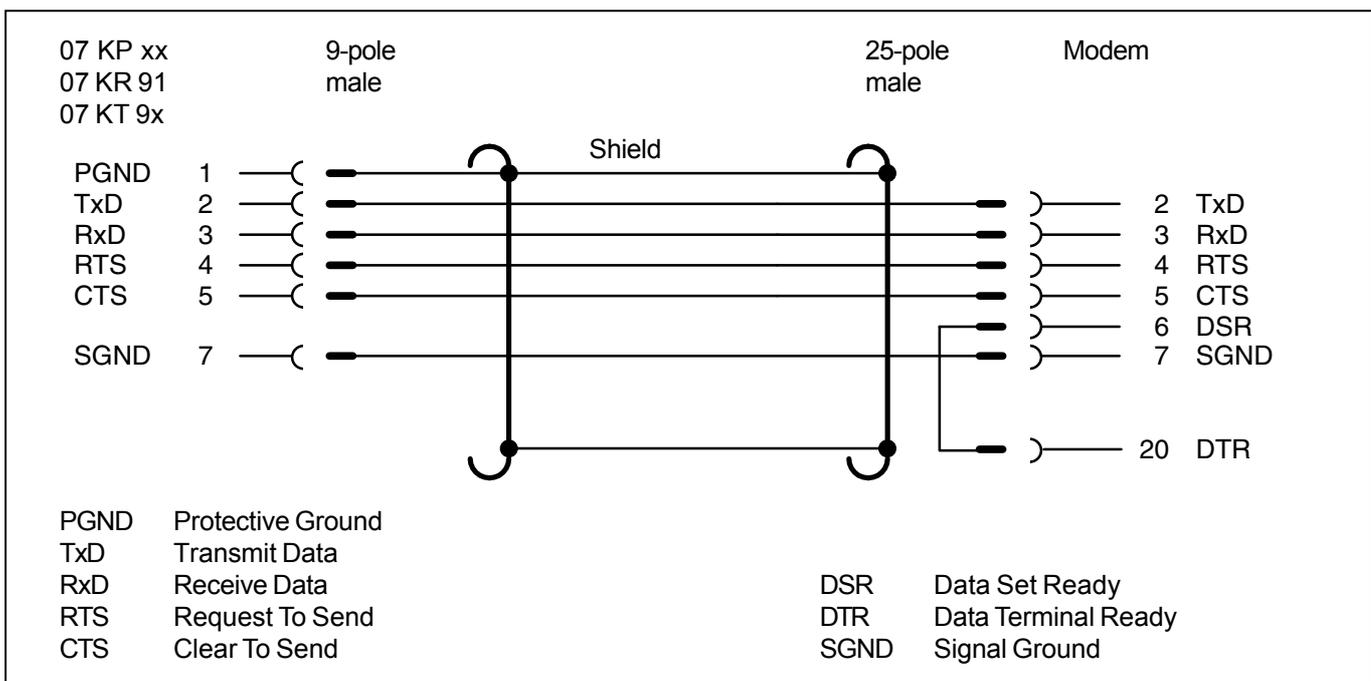|				
PGND	Protective Ground			
TxD	Transmit Data			
RxD	Receive Data	DSR	Data Set Ready	
RTS	Request To Send	DTR	Data Terminal Ready	
CTS	Clear To Send	SGND	Signal Ground	

Fig. 10.2-4:   Terminal assignment 07 SK 92