

# Connection Cables

## for Operating Devices

### Technical Manual

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## Connection Cables for Operating Devices

This cable documentation serves the purely functional assignment of the devices. The safety conditions can limit the cable length.

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## 1 Compatible Device-Cable Combinations

Description	Cable type	End connectors
<a href="#">HGT 1035</a> <a href="#">HGT 1035-H</a> <a href="#">HGT 835</a> <a href="#">HGT 835-TF</a>	12-935-040 (4 m) 12-935-090 (9 m) 12-935-150 (15 m) 12-935-200 (20 m)	Safety interface (Phoenix) Ethernet (RJ45) VARAN (Tyco Mini I/O) Supply (single wires)
<a href="#">HGT 1051</a>	12-935-040 (4 m) 12-935-090 (9 m) 12-935-150 (15 m) 12-935-200 (20 m)	Safety interface (Phoenix) Ethernet 1 (RJ45) Ethernet 2 (Tyco Mini I/O) Supply (single wires)
<a href="#">HBG 0811</a> <a href="#">HBG 0811-K</a> <a href="#">HBG 1011</a> <a href="#">HBG 1011-K</a> <a href="#">HBG 1011-1</a> <a href="#">HBG 1011-H</a> <a href="#">HGT 1053</a>	12-930-020 (2 m) 12-930-090 (9 m) 12-930-200 (20 m) 12-930-300 (30 m)	Safety interface (Phoenix) HMI Link/GBit ETH (RJ45) Supply (single wires)
<a href="#">RBG 151</a>	12-930-200 (20 m)	Safety interface (Phoenix) HMI Link (RJ45) Supply (single wires)
<a href="#">HBG 0811</a> <a href="#">HBG 0811-K</a> <a href="#">HBG 1011</a> <a href="#">HBG 1011-K</a> <a href="#">HBG 1011-1</a> <a href="#">HBG 1011-H</a>	12-930-030-H (3 m)	Binder 99-5851-15-14
<a href="#">HBG 0811</a> <a href="#">HBG 0811-K</a> <a href="#">HBG 1011</a> <a href="#">HBG 1011-K</a> <a href="#">HBG 1011-1</a> <a href="#">HBG 1011-H</a>	12-930-030-H1 (3 m)	Binder 99-5805-15-16
<a href="#">HGT 1052-E</a> <a href="#">HGT 1052-E1</a>	12-936-015 (1,5 m) 12-936-035 (3,5 m) 12-936-250 (25 m)	Supply (single wires) Ethernet (RJ45)
<a href="#">HGT 1052-E</a> <a href="#">HGT 1052-E1</a>	12-937-100 (10 m)	FGG.1B.3D8.CLAD72

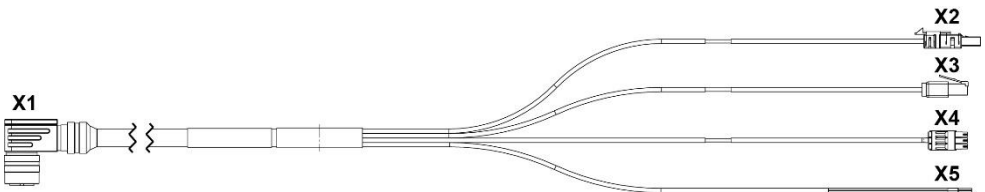
<a href="#">BWH</a>	12-246-001-Z1-010 (1 m) 12-246-001-Z1 (5 m) 12-246-001-Z1-100 (10 m) 12-246-001-Z1-150 (15 m) 12-246-001-Z1-200 (20 m)	Ethernet (Tyco Mini I/O) CAN (single wires) Supply (single wires)
<a href="#">BWH</a>	12-246-001-Z2-010 (1 m) 12-246-001-Z2 (5 m) 12-246-001-Z2-100 (10 m) 12-246-001-Z2-150 (15 m) 12-246-001-Z2-200 (20 m)	Ethernet (RJ45) CAN (single wires) Supply (single wires)
<a href="#">BWH</a>	12-246-001-Z3-010 (1 m) 12-246-001-Z3 (5 m) 12-246-001-Z3-100 (10 m) 12-246-001-Z3-150 (15 m) 12-246-001-Z3-200 (20 m)	Ethernet (RJ45)
<a href="#">HGT 835-2</a>	01-245-835-Z2 (0,7 m)	Mini I/O plug on M12 socket
<a href="#">HGT 835-2</a>	01-245-835-Z3 (2 m)	RJ45 plug on M12 socket
<a href="#">HGT 835-2</a>	01-245-835-Z4 (2 m)	RJ45 plug on M12 plug
<a href="#">HGT 1053</a> <a href="#">HGT 1053-D</a>	12-938-050 (5 m) 12-938-100 (10 m)	Binder 99 5652 75 14 auf Hummel TWILOCK 7.816.500.000
<a href="#">HGT 1053</a> <a href="#">HGT 1053-D</a>	12-939-012 (1,2 m)	Hummel TWILOCK 7.816.500.000 to: Safety interface (Phoenix) GBit ETH (RJ45) Supply (single wires)
<a href="#">HGT 1053</a>	12-940-005 (0,5 m) 12-940-015 (1.5 m)	Hummel TWILOCK 7.816.500.000 to: Safety interface (Phoenix) GBit ETH (RJ45) Supply (single wires)

## 2 Models

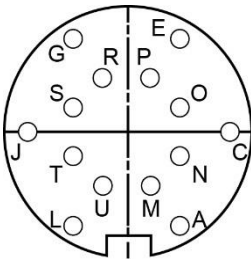
### 2.1 12-935-XXX HGT Connection Cable

HGT Connection Cable	
Length	Article number
4 m	12-935-040
9 m	12-935-090
15 m	12-935-150
20 m	12-935-200

#### 2.1.1 Connector Layout

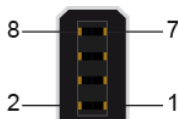


#### X1: Cable Connector M16



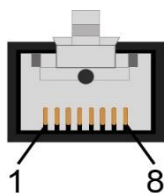
Pin	Wire Color	Function
L	pink	Safety interface H
J	gray	Safety interface L
G	shield	Safety interface shield
E	red	+24 V DC
C	black	GND
A	shield	ETH shield
U	orange/white	ETH_Rx+
T	blue	VAR_Rx-/ETH2_Rx-
S	blue/white	VAR_Rx+/ETH2_Rx+
R	brown	VAR_Tx-/ETH2_Tx-
P	brown/white	VAR_Tx+/ETH2_Tx+
O	green	ETH_Tx-
N	green/white	ETH_Tx+
M	orange	ETH_Rx-



**X2: VARAN/Ethernet (Tyco Mini I/O)**


Pin	Function
1	Tx/Rx+
2	Tx/Rx-
3	Rx/Tx+
4-5	n.c.
6	Rx/Tx-
7-8	n.c.

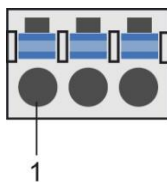
n.c. = do not use

**X3: Ethernet (RJ45 connector)**


Pin	Function
1	Tx+
2	Tx-
3	Rx+
4	n.c.
5	n.c.
6	Rx-
7	n.c.
8	n.c.



For use in local networks only, not in telecommunication circuits!

**X4: Safety Interface (Phoenix plug)**


Pin	Wire Color	Function
1	gray	Safety interface L
2	pink	Safety interface H
3	shield	Safety interface shield

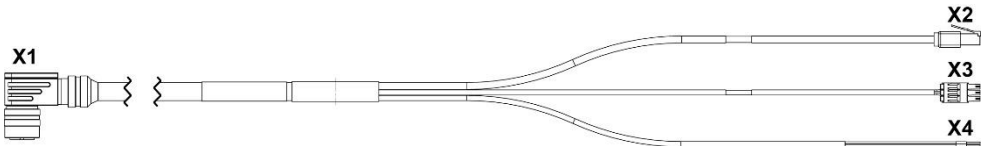
**X5: Supply (single lines)**

Wire Color	Function
red	+24 V
black	GND

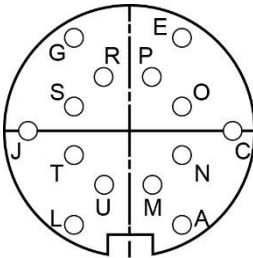
## 2.2 12-930-XXX HBG/HGT Connection Cable

HBG/HGT Connection Cable	
Length	Article number
2 m	12-930-020
9 m	12-930-090
20 m	12-930-200
30 m	12-930-300

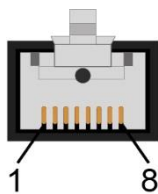
### 2.2.1 Connector Layout



#### X1: Cable Connector M16



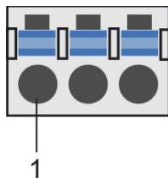
Pin	Wire Color	Function HMI	Function ETH
L	pink	Safety interface H	Safety interface H
J	gray	Safety interface L	Safety interface L
G	shield	Safety interface shield	Safety interface shield
E	red	+24 V DC	+24 V DC
C	black	GND	GND
A	shield	HMI-Link shield	ETH shield
U	orange/white	DB+	DA+/TX+
T	blue	DC+	DD+
S	blue/white	DC-	DD-
R	brown	DD-	DC-
P	brown/white	DD+	DC+
O	green	DA-	DB-/RX-
N	green/white	DA+	DB+/RX+
M	orange	DB-	DA-/TX-

**X2: HMI Link/Gigabit Ethernet (RJ45 plug)**


Pin	Function HMI	Function ETH
1	DA+	DB+/RX+
2	DA-	DB-/RX-
3	DB+	DA+/TX+
4	DC+	DD+
5	DC-	DD-
6	DB-	DA-/TX-
7	DD+	DC+
8	DD-	DC-



HMI Link: For use in local networks only, not in telecommunication circuits!

**X3: Safety Interface (Phoenix plug)**


Pin	Wire Color	Function
1	gray	Safety interface L
2	pink	Safety interface H
3	shield	Safety interface shield

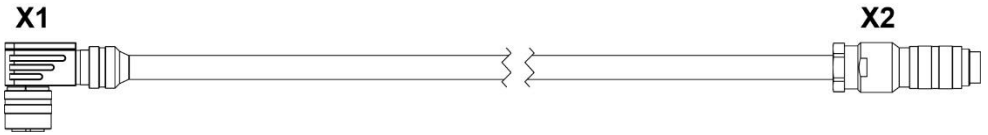
**X4: Supply (single lines)**

Wire Color	Function
red	+24 V
black	GND

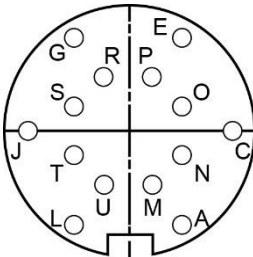
**2.3 12-930-XXX-H HBG 3 m Connection Cable**

HBG 3 m Connection Cable	
Length	Article number
3 m	12-930-030-H

**2.3.1 Connector Layout**

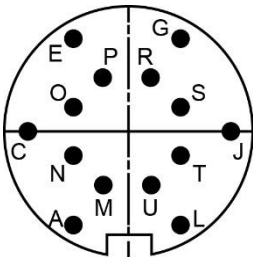


**X1: M16 Cable Connector (Socket Contact)**



Pin	Wire Color	Function	
L	pink	Safety interface H	
J	grey	Safety interface L	
G	shield	Safety interface shield	
E	red	+24 V DC	
C	black	GND	
A	shield	HMI-Link shield	
U	orange/white	HMI Link	DB+
T	blue		DC+
S	blue/white		DC-
R	brown		DD-
P	brown/white		DD+
O	green		DA-
N	green/white		DA+
M	orange		DB-

**X2: M16 Cable Connector (Plug Contact)**

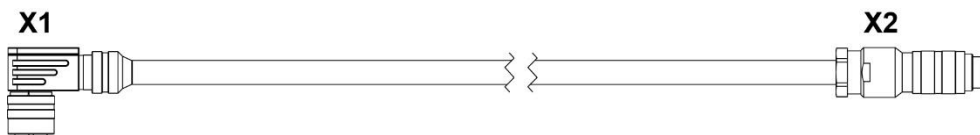


Pin	Wire Color	Function	
L	pink	Safety interface H	
J	grey	Safety interface L	
G	shield	Safety interface shield	
E	red	+24 V DC	
C	black	GND	
A	shield	HMI-Link shield	
U	orange/white	HMI Link	DB+
T	blue		DC+
S	blue/white		DC-
R	brown		DD-
P	brown/white		DD+
O	green		DA-
N	green/white		DA+
M	orange		DB-

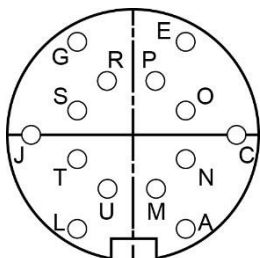
## 2.4 12-930-XXX-H1 HBG 3 m Connection Cable

HBG 3 m Connection Cable	
Length	Article number
3 m	12-930-030-H1

### 2.4.1 Connector Layout

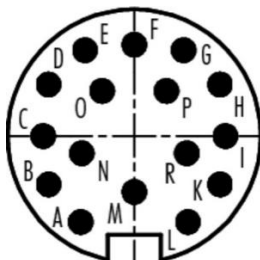


#### X1: M16 Cable Connector (Socket Contact)



Pin	Wire Color	Function	
L	pink	Safety-Interface-H	
J	grey	Safety-Interface-L	
G	shield	Safety-Interface shield	
E	red	+24 V DC	
C	black	GND	
A	shield	HMI-Link shield	
U	orange/white	HMI-Link	DB+
T	blue		DC+
S	blue/white		DC-
R	brown		DD-
P	brown/white		DD+
O	green		DA-
N	green/white		DA+
M	orange		DB-

#### X2: M16 Cable Connector (Plug Contact)

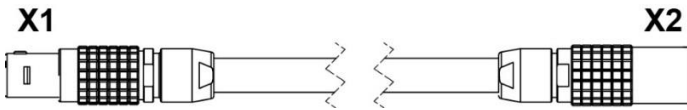


Pin	Wire Color	Function	
P	pink	Safety-Interface-H	
N	grey	Safety-Interface-L	
O	shield	Safety-Interface shield	
M	red	+24 V DC	
R	black	GND	
F	shield	HMI-Link shield	
G	orange/white	HMI-Link	DB+
E	blue		DC+
D	blue/white		DC-
L	brown		DD-
K	brown/white		DD+
B	green		DA-
A	green/white		DA+
H	orange		DB-
C	none	n.c.	
I	none	n.c.	

## 2.5 12-937-100 HGT 1052 Extension Cable

HGT 1052 Extension Cable	
Length	Article number
10 m	12-937-100

### 2.5.1 Connector Layout



X1

FGG.1B



Pin	Wire Color	Function
1	red	+24 V DC
2	blue	RxD-
3	-	n.c.
4	pink	RxD+
5	black	0 V
6	yellow	TxD+
7	-	n.c.
8	green	TxD-

X2

PFG.1B

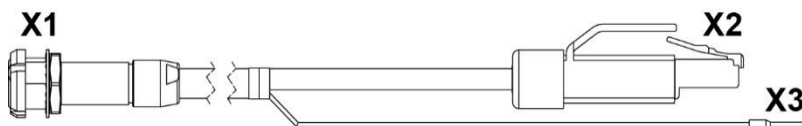


Pin	Wire Color	Function
1	red	+24 V DC
2	blue	RxD-
3	-	n.c.
4	pink	RxD+
5	black	0 V
6	yellow	TxD+
7	-	n.c.
8	green	TxD-

## 2.6 12-936-XXX HGT 1052 Connection Cable

HGT 1052 Connection Cable	
Length	Article number
1.5 m	12-936-015
3.5 m	12-936-035
25 m	12-936-250

### 2.6.1 Connector Layout



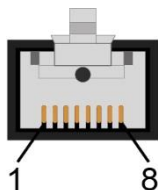
**X1**

PFG.1B



Pin	Wire Color	Function
1	red	+24 V DC
2	blue	RxD-
3	-	n.c.
4	pink	RxD+
5	black	0 V
6	yellow	TxD+
7	-	n.c.
8	green	TxD-

**X2: HMI-Link (RJ45 plug)**



Pin	Function
1	DA+
2	DA-
3	DB+
4	DC+
5	DC-
6	DB-
7	DD+
8	DD-



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**X3: Supply (single lines)**

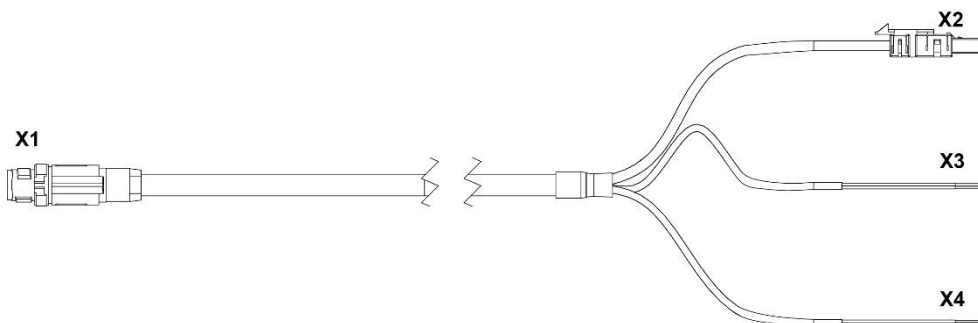
Wire Color	Function
red	+24 V
black	GND



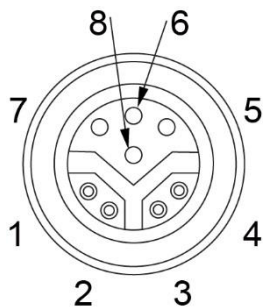
## 2.7 12-246-001-Z1-XXX Connector Cable BWH

Connector Cable BWH	
Length	Article number
1 m	12-246-001-Z1-010
4 m	12-246-001-Z1-040
5 m	12-246-001-Z1
10 m	12-246-001-Z1-100
15 m	12-246-001-Z1-150
20 m	12-246-001-Z1-200

### 2.7.1 Connector Layout

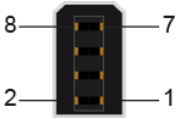


#### X1: Cable Connector M12 Y-coded



Pin	Wire color	Function
1	white/orange	Rx+
2	orange	Rx-
3	white/green	Tx+
4	green	Tx-
5	blue	VCC/+24 V
6	white	CAN_L
7	brown	CAN_H
8	black	GND

**X2: Ethernet (Tyco Mini I/O)**



Pin	Function
1	Tx/Rx+
2	Tx/Rx-
3	Rx/Tx+
4-5	n.c.
6	Rx/Tx-
7-8	n.c.

n.c. = do not use

**X3: CAN Bus (single wires)**

Wire color	Function
white	CAN_L
brown	CAN_H

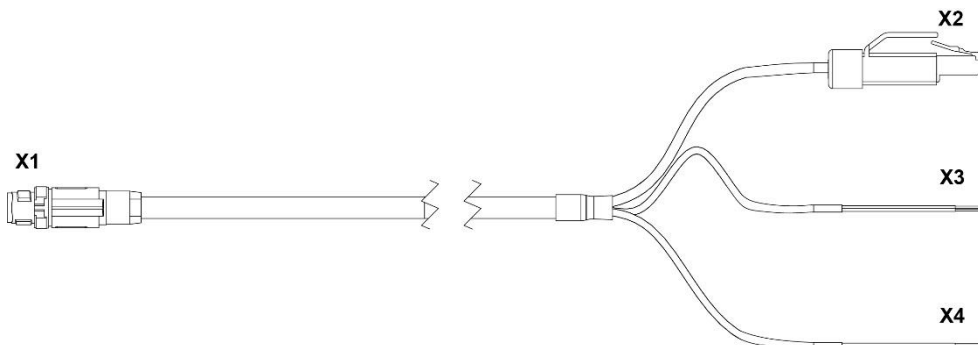
**X4: Supply (single wires)**

Wire color	Function
blue	VCC/+24 V
black	GND

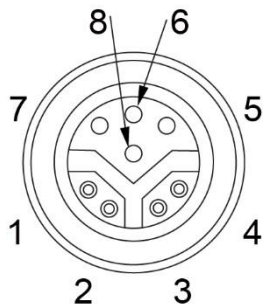
## 2.8 12-246-001-Z2-XXX Connector Cable BWH

Connector Cable BWH	
Length	Article number
1 m	12-246-001-Z2-010
5 m	12-246-001-Z2
10 m	12-246-001-Z2-100
15 m	12-246-001-Z2-150
20 m	12-246-001-Z2-200

### 2.8.1 Connector Layout

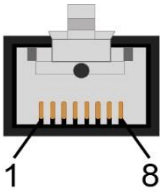


#### X1: Cable Connector M12 Y-coded



Pin	Wire color	Function
1	white/orange	Rx+
2	orange	Rx-
3	white/green	Tx+
4	green	Tx-
5	blue	VCC/+24 V
6	white	CAN_L
7	brown	CAN_H
8	black	GND

**X2: Ethernet (RJ45 plug)**



Pin	Function
1	Tx+
2	Tx-
3	Rx+
4	n.c.
5	n.c.
6	Rx-
7	n.c.
8	n.c.



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**X3: CAN Bus (single wires)**

Wire color	Function
white	CAN_L
brown	CAN_H

**X4: Supply (single wires)**

Wire color	Function
blue	VCC/+24 V
black	GND

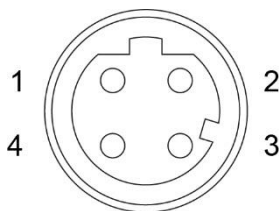
## 2.9 12-246-001-Z3-XXX Connector Cable BWH

Connector Cable BWH	
Length	Article number
1 m	12-246-001-Z3-010
4 m	12-246-001-Z3-040
5 m	12-246-001-Z3
10 m	12-246-001-Z3-100
15 m	12-246-001-Z3-150
20 m	12-246-001-Z3-200

### 2.9.1 Connector Layout

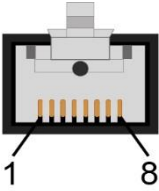


#### X1: Cable Connector M12 D-coded



Pin	Function
1	Tx+
2	Rx+
3	Tx-
4	Rx-
shield	GND

**X2: Ethernet (RJ45 plug)**



Pin	Function
1	Tx+
2	Tx-
3	Rx+
4	n.c.
5	n.c.
6	Rx-
7	n.c.
8	n.c.

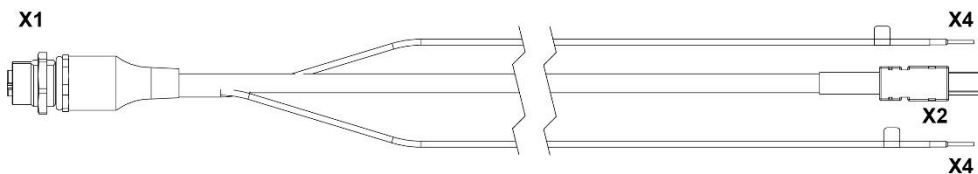


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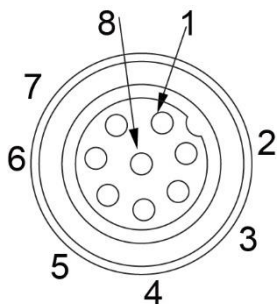
## 2.10 01-245-835-Z2 Connector Cable HGT 835-2

Connector cable HGT	
Length	Article number
0,7 m	01-245-835-Z2

### 2.10.1 Connector Layout

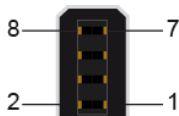


#### X1: Cable Connector



Pin	Wire color	Function
1	-	n.c.-
2	yellow	Tx+
3	orange	Tx-
4		n.c.
5	white	Rx+
6	dark blue (GND)	GND
7	dark blue (24 V DC)	24V
8	light blue (from cable)	Rx-
Housing	Shielding braid	Ground

#### X2: Ethernet (Tyco Mini I/O)



Pin	Function
1	Tx/Rx+
2	Tx/Rx-
3	Rx/Tx+
4-5	n.c.
6	Rx/Tx-
7-8	n.c.

n.c. = do not use

**X4: Supply (single wires)**

Wire color	Function
blue (marking 24 V DC)	+24 V DC
blue (marking GND)	GND



## 2.11 01-245-835-Z3 Connector Cable HGT 835-2

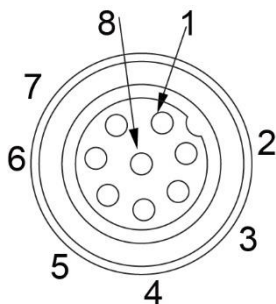
Connector cable HGT	
Length	Article number
2 m	01-245-835-Z3

The cable is supplied with: table power supply & power supply cable.

### 2.11.1 Connector Layout

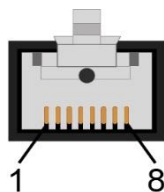


#### X1: Cable connector



Pin	Wire color	Function
1	-	n.c.-
2	orange-white	Tx+
3	orange	Tx-
4		n.c.
5	green-white	Rx+
6	black	GND
7	red	+24
8	green	Rx-

#### X2: Ethernet (RJ45 connector)



Pin	Function
1	Tx+
2	Tx-
3	Rx+
4	n.c.
5	n.c.
6	Rx-
7	n.c.
8	n.c.

**X3: DC socket for hollow plug**



Pin	Funktion
1	24 V DC
2	GND

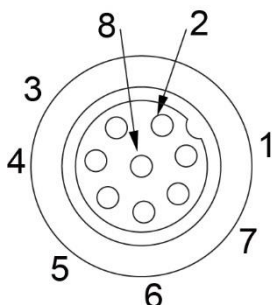
## 2.12 01-245-835-Z4 Connector Cable HGT 835-2

Connector cable HGT	
Length	Article number
2 m	01-245-835-Z4

### 2.12.1 Connector Layout

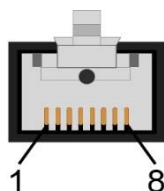


#### X1: Connector cable



Pin	Wire color	Function
1	-	n.c.
2	orange-white	Tx+
3	orange	Tx-
4		n.c.
5	green-white	Rx+
6	black	n.c.
7		n.c.
8	green	Rx-

#### X2: Ethernet (RJ45 connector)

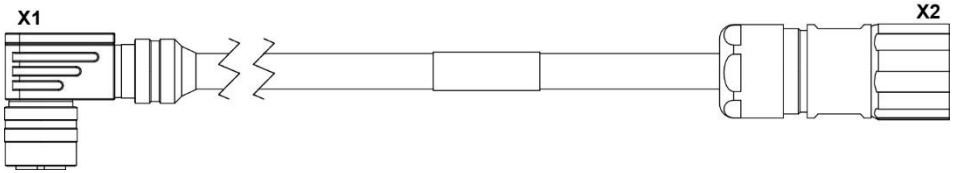


Pin	Function
1	Tx+
2	Tx-
3	Rx+
4	n.c.
5	n.c.
6	Rx-
7	n.c.
8	n.c.

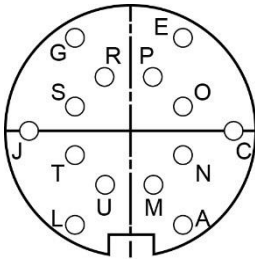
### 2.13 12-938-XXX Connector Cable HGT 1053

Connector cable HGT	
Length	Length
5 m	12-938-050

#### 2.13.1 Connector Layout

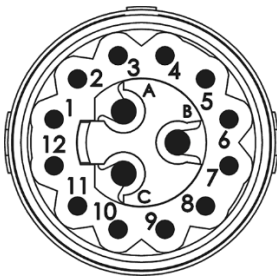


#### X1: M16 Cable Connector



Pin	Wire color	Function	
L	pink	Safety interface H	
J	gray	Safety interface L	
G	shield	Safety interface shield	
E	red	+24 V DC	
C	black	GND	
A	shield	ETH shield	
U	orange/white	Gigabit Ethernet	DA+/Tx+
T	blue		DD+
S	blue/white		DD-
R	brown		DC-
P	brown/white		DC+
O	green		DB-/Rx-
N	green/white		DB+/Rx+
M	orange		DA-/Tx-

#### X2: TWILOCK quick connector



Pin	Wire color	Function	
1	pink	Safety interface H	
2	gray	Safety interface L	
A	shield	Safety interface shield	
3	red	+24 V DC	
4	black	GND	
B	shield	ETH shield	
5	orange/white	Gigabit Ethernet	DA+/Tx+
6	blue		DD+
7	blue/white		DD-
8	brown		DC-
9	brown/white		DC+
10	green		DB-/Rx-
11	green/white		DB+/Rx+
12	orange		DA-/Tx-

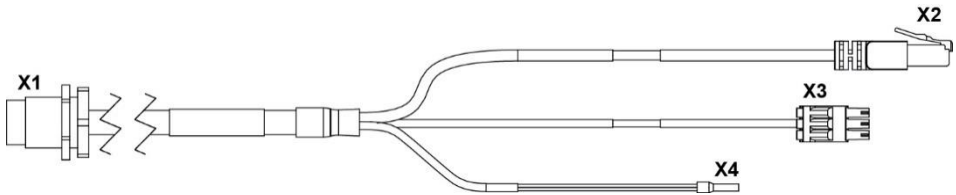
**2.14 12-939-XXX Connection Cable Control Cabinet HGT 1053**

Connecting cable HBG/HGT	
Length	Article number
1.2 m	12-939-012

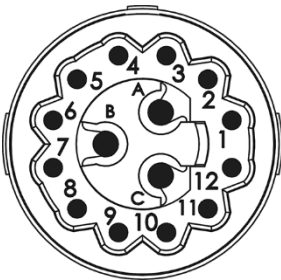


The cable on the TWILOCK connector (X1) is not strain-relieved and must therefore be handled with particular care. When installing the cable, the machine builder must ensure sufficient strain relief. Cable and pins can otherwise be damaged!

**2.14.1 Connector Layout**

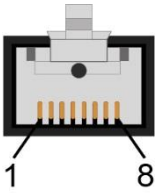


**X1: Quick connector (female) TWILOCK**



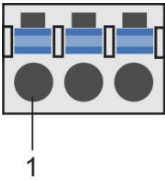
Pin	Wire color	Function ETH	
1	pink	Safety interface H	
2	gray	Safety interface L	
A	shield	Safety interface shield	
3	red	+24 V DC	
4	black	GND	
B	shield	ETH shield	
5	orange/white	Gigabit Ethernet	DA+/Tx+
6	blue		DD+
7	blue/white		DD-
8	brown		DC-
9	brown/white		DC+
10	green		DB-/Rx-
11	green/white		DB+/Rx+
12	orange		DA-/Tx-

**X2: Gigabit Ethernet (RJ45 plug)**



Pin	Function ETH
1	DB+/Rx+
2	DB-/Rx-
3	DA+/Tx+
4	DD+
5	DD-
6	DA-/Tx-
7	DC+
8	DC-

**X3: Safety Interface (Phoenix plug)**



Pin	Wire color	Function
1	gray	Safety interface L
2	pink	Safety interface H
3	shield	Safety interface shield

**X4: Supply (single wires)**



Wire color	Function
red	+24 V
black	GND

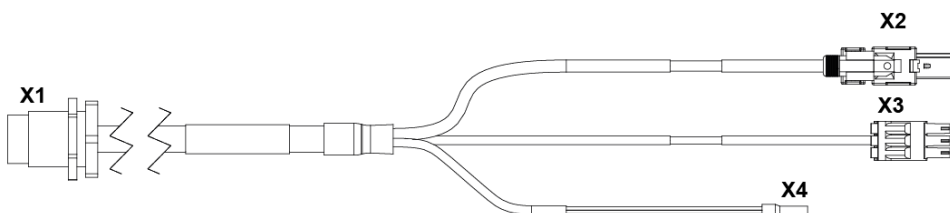
## 2.15 12-940-XXX Connection Cable Control Cabinet HGT 1053

Connecting cable HBG/HGT	
Length	Article number
0.5 m	12-940-005
1.5 m	12-940-015

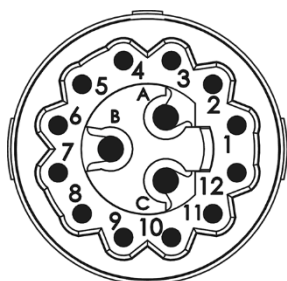


The cable on the TWILOCK connector (X1) is not strain-relieved and must therefore be handled with particular care. When installing the cable, the machine builder must ensure sufficient strain relief. Cable and pins can otherwise be damaged!

### 2.15.1 Connector Layout

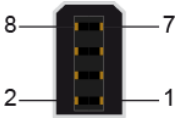


#### X1: Quick connector (female) TWILOCK



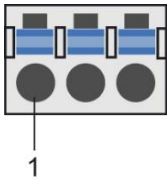
Pin	Wire color	Function ETH
1	pink	Safety interface H
2	gray	Safety interface L
A	shield	Safety interface shield
3	red	+24 V DC
4	black	GND
B	shield	ETH shield
5	orange/white	DA+/Tx+
6	blue	DD+
7	blue/white	DD-
8	brown	DC-
9	brown/white	DC+
10	green	DB-/Rx-
11	green/white	DB+/Rx+
12	orange	DA-/Tx-

**X2: VARAN/Ethernet (Tyco Mini I/O)**



Pin	Function
1	DB+/Rx+
2	DB-/Rx-
3	DA+/Tx+
4	DD+
5	DD-
6	DA-/Tx-
7	DC+
8	DC-

**X3: Safety Interface (Phoenix plug)**



Pin	Wire color	Function
1	gray	Safety interface L
2	pink	Safety interface H
3	shield	Safety interface shield

**X4: Supply (single wires)**



Wire color	Function
red	+24 V
black	GND



## Documentation Changes

Change date	Affected page(s)	Chapter	Note
30.03.2018	3	1 Compatible Device-Cable Combinations	12-935-040, 12-935-150 added
	4	2.1 12-935-XXX HGT Connection Cable	
10.07.2018	4	2.1 12-935-XXX HGT Connection Cable	Pin description corrected
11.07.2018	12	2.6 and following	BWH Connection Cable added
24.10.2018	3	1 Compatible Device-Cable Combinations	12-936-250 added
	11	2.5 12-936-XXX HGT Connection Cable	
05.02.2019	3	1 Compatible Device-Cable Combinations	12-930-020 added
	7	2.2 12-930-XXX Connection Cable HGB	
11.06.2019	13	2.6 12-246-001-Z1 Connector Cable BWH	12-246-001-Z1-100 added
11.11.2019	3, 13	2.6 12-246_001-Z1 Connector Cable BWH	Length 1, 15 and 20 m added
	15	2.7 12-246_001-Z2 Connector Cable BWH	
	17	2.8 12-246_001-Z3 Connector Cable BWH	
17.12.2019	3	1 Compatible Device-Cable Combinations	12-930-030 (3 m) Binder 99-5805-15-16 added
	9	2.3.1	X2: Connection Cable M16 (plug contact) added and colours repaired in table
	10	2.4 12-930-030 Connector Cable HBG 3m	Entire point 2.4. added
10.08.2020	5	1 Compatible Device-Cable Combinations	01-245-835-Z2, 01-245-835-Z3 and 01-245-835-Z4 added Chapter 2.10 - 2.12 added
	20 - 24		
05.10.2020	10	2.3 12-930-XXX-H HBG 3 m Connection Cable	For X2: M16 Cable Connector (Plug Contact) Wire colors for pin assignment changed (L, J and G)

	11	2.4 12-930-XXX-H1 HBG 3 m Connection Cable	X2: M16 Cable Connector (Plug Contact) Wire colors for pin assignment changed (P, N and O) and Table completed with pin C and pin I
23.02.2021	4 8	2.2 12-930-XXX HBG/HGT	HGT ETH added
28.06.2021	15 22	2.7 Z1-XXX Connector Cable BWH 2.9 Z3-XXX Connector Cable BWH	4 m Variant added
24.09.2021	26	2.13 12-938-XXX Connector Cable HGT 1053	HGT 1053 added
	27	2.14 12-939-XXX Connector Cable Control Cabinet HGT 1053	HGT 1053 added
28.09.2021	Document	Safety Interface (Phoenix plug)	Graphic with pin 1 changed
	27	2.14 12-939-XXX Connector Cable Control Cabinet HGT 1053	Added strain relief note
31.01.2022	25	2.13 12-938-XXX Connector Cable HGT 1053	10 m added
	28	2.15 12-940-XXX Connector Cable Control Cabinet HGT 1053	added