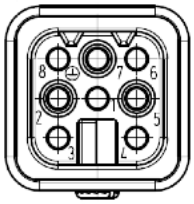
DUET WIRING CONNECTIONS

POWER CONNECTOR for DUET 40

PIN	FUNCTION
1	+24 Vdc
2	0 Vdc
3	48 VP +
4	DOUT 0
5	DIN 1
6	DIN 2
7	PR
8	PE + Shield

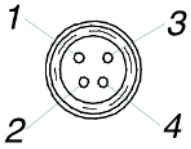


HAN 8D-M Male

SIGNAL CONNECTOR for DUET 40

CAN IN

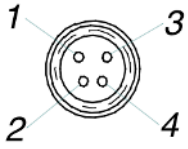
PIN	FUNCTION
1	Comret
2	-
3	Can-High
4	Can-Low



M8 Female

I/O

PIN	FUNCTION
1	0 Vdc
2	+24 Vdc
3	AIN 0 0-10 Vdc
4	DIN 0



M8 Female

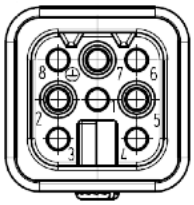
CAN OUT

PIN	FUNCTION
1	Comret
2	-
3	Can-High
4	Can-Low

M8 Male

POWER CONNECTOR for DUET 60

PIN	FUNCTION
1	+24 Vdc
2	0 Vdc
3	48 VP +
5	DOUT 1
6	DIN 1
7	PR
8	PE + Shield

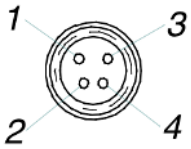


HAN 8D-M Male

SIGNAL CONNECTOR for DUET 60

CAN IN

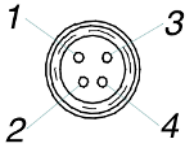
PIN	FUNCTION
1	Comret
2	-
3	Can-High
4	Can-Low



M8 Female

I/O

PIN	FUNCTION
1	0 Vdc
2	Analog - (±10V)
3	Analog + (±10V)
4	DIN 0



M8 Female

CAN OUT

PIN	FUNCTION
1	Comret
2	-
3	Can-High
4	Can-Low

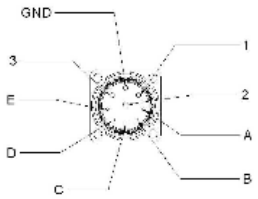
M8 Male

DUET FLEXI WIRING CONNECTIONS

POWER CONNECTOR

PIN	FUNCTION
1	+24 Vdc
2	0 Vdc
3	+48 Vdc
GND	Protective ground
A	Motor brake + (#)
B	Motor brake - (#)
C	- (#)
D	Drive brake out + (#)
E	Drive brake out - (#)

(#) Optional



M17 BEGA 906 MR Male

SIGNAL CONNECTOR

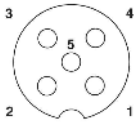
RS 232

PIN	FUNCTION
1	Rx
2	Tx
3	Gnd
4	DIN7
Case	Shield

M8 Male

CAN IN

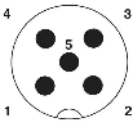
PIN	FUNCTION
1	Shield
2	-
3	Can-Gnd
4	Can-high
5	Can-low



M12 Female

CAN OUT

PIN	FUNCTION
1	Shield
2	-
3	Can-gnd
4	Can-high
5	Can-low

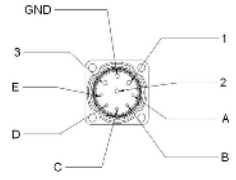


M12 Male

POWER CONNECTOR

PIN	FUNCTION
1	+24 Vdc
2	0 Vdc
3	+48 Vdc
GND	Protective ground
A	Motor brake + (#)
B	Motor brake - (#)
C	- (#)
D	Drive brake out + (#)
E	Drive brake out - (#)

(#) Optional

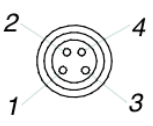


M17 BEGA 906 MR Male

SIGNAL CONNECTOR

RS 232

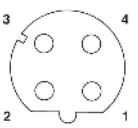
PIN	FUNCTION
1	Rx
2	Tx
3	Gnd
4	DIN7
Case	Shield



M8 Male

ETHERCAT IN

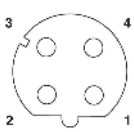
PIN	FUNCTION
1	TD +
2	RD +
3	TD -
4	RD -
Case	Shield



M12 Female

ETHERCAT OUT

PIN	FUNCTION
1	TD +
2	RD +
3	TD -
4	RD -
Case	Shield

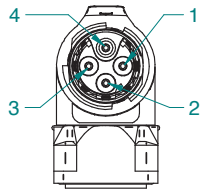


M12 Female

DUET AD MODBUS WIRING CONNECTIONS

POWER CONNECTOR

PIN	FUNCTION
1	U power
2	Ballast
3	GND power
4	PE

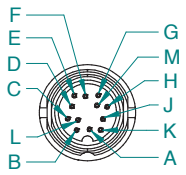


CN POWER M17x1 BEDC 894 MR 4p

SIGNAL CONNECTOR

MODBUS RTU / RS485

PIN	FUNCTION
A	In 0
B	In 1
C	In 2
D	In 3
E	Out 1
F	Out 2
G	AI +
H	AI -
J	+24 Vdc
K	GND (OV)
L	Service -
M	Service +

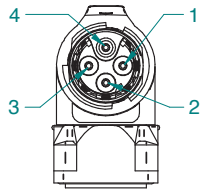


CN SIGNAL M16 Male 12 p

DUET AD CANOPEN WIRING CONNECTIONS

POWER CONNECTOR

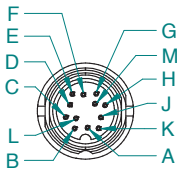
PIN	FUNCTION
1	U power
2	Ballast
3	GND power
4	PE



CN POWER M17x1 BEDC 894 MR 4p

SIGNAL CONNECTOR

PIN	FUNCTION
A	In 0
B	In 1
C	In 2
D	In 3
E	Out 1
F	Out 2
G	AI +
H	AI -
J	+24 Vdc
K	GND (0V)
L	Service -
M	Service +



CN SIGNAL M16 Male 12p

CANOPEN

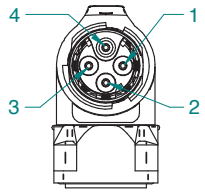
PIN	FUNCTION
1	n.c.
2	n.c.
3	CAN-GDN
4	CAN-HIGH
5	CAN-LOW

CN CANOPEN M12 Male 5p Type A

DUET AD ETHERCAT WIRING CONNECTIONS

POWER CONNECTOR

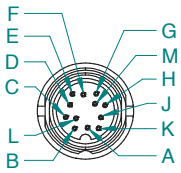
PIN	FUNCTION
1	U power
2	Ballast
3	GND power
4	PE



CN POWER M17x1 BEDC 894 MR 4p

SIGNAL CONNECTOR

PIN	FUNCTION
A	In 0
B	In 1
C	In 2
D	In 3
E	Out 1
F	Out 2
G	AI +
H	AI -
J	+24 Vdc
K	GND (OV)
L	Service -
M	Service +



CN SIGNAL M16 Male 12p

ETHERCAT

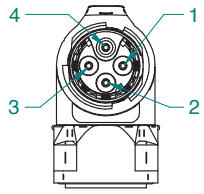
PIN	FUNCTION
1	TD+
2	RD+
3	TD-
4	RD-

CN ETHERCAT M12 Female 4p Type D

DUET AD PROFINET WIRING CONNECTIONS

POWER CONNECTOR

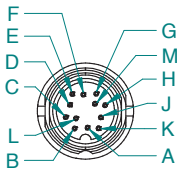
PIN	FUNCTION
1	U power
2	Ballast
3	GND power
4	PE



CN POWER M17x1 BEDC 894 MR 4p

SIGNAL CONNECTOR

PIN	FUNCTION
A	In 0
B	In 1
C	In 2
D	In 3
E	Out 1
F	Out 2
G	AI +
H	AI -
J	+24 Vdc
K	GND (0V)
L	Service -
M	Service +



CN SIGNAL M16 Male 12p

PROFINET

PIN	FUNCTION
1	TX+
2	RX+
3	TX-
4	RX-

CN PROFINET M12 Female 4p Type D

SEE IT BEFORE IT HAPPENS
MOTOR POWER COMPANY

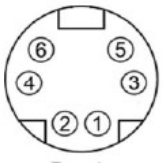
DUET HV 60 WIRING CONNECTIONS

POWER CONNECTOR

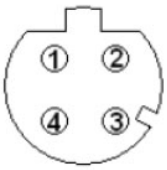
CN X1 PIN	CN X1 DC power and logic supply STO M23 Male Hummel 4p+3p+PE
1	HV-
2	PE
3	Not connencted
4	HV+
A	/STO1
B	GND (24 Vdc return)
C	/STO2
D	CV (+24Vdc)
Case	PE

SIGNAL CONNECTOR

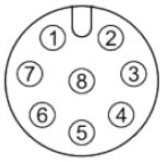
CN X4 PIN	CN X4 auxiliary bus (RS232) Minidin Female, 6p
1	Not connencted
2	TX232
3	GND_COM
4	Not conncted
5	Not connencted
6	RX232
Case	PE



CN X2 - X3 PIN	CN X2 ETC out, CN X3 ETC in M12, 4p female, D-code
1	TX Data+
2	RX Data +
3	TX Data -
4	RX Data -
Case	PE



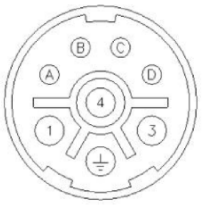
CN X5 PIN	CN X5 input/output CN M12 female 4p, A-code
1	IN/OUT0
2	IN1
3	IN2
4	IN3
5	Not connected
6	OUT1
7	GND
8	OUT2
Case	PE



DUET HV 80 -100 -142 WIRING CONNECTIONS

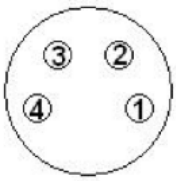
POWER CONNECTOR

CN5 PIN	CN5 DC POWER AND LOGIC SUPPLY, STO, IN9 M23 Male Hummel 4p+3p+PE
1	HV-
3	NC
4	HV+
T	PE
A	/STO
B	GND_24
C	IN9
D	+24 Vdc
Case	PE

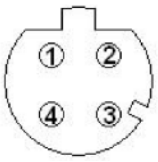


SIGNAL CONNECTOR

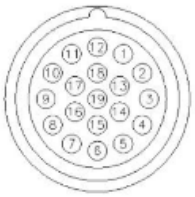
CN 1 PIN	CN1 auxiliary Bus (RS232) CN M8 4p female
1	TX232
2	RX232
3	NC
4	GND_COM
Case	PE



CN 2 -3 PIN	CN2 ETC out, CN3 ETC in M12 4p female D-code
1	TX Data +
2	RX Data +
3	TX Data -
4	RX Data -
Case	PE



CN4 PIN	CN4 input/output CN M23 Male hummel 19p
1	IN/OUT 1-
2	IN/OUT 2-
3	AN_IN -
4	AN_IN +
5	IN/OUT 2+
6	GND_5V
7	+5 Vdc
8	IN 8
9	OUT 5
10	IN/OUT 3
11	IN 7
12	IN/OUT 0-
13	IN/OUT 0+
14	IN/OUT 1+
15	IN 4
16	OUT 4
17	OUT 6
18	IN 6
19	IN 5
Case	PE



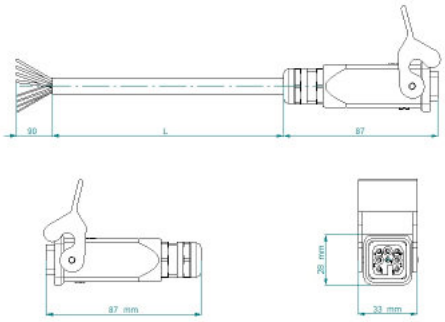
80-100mm flange

142mm flange

CABLES SPECIFICATIONS

POWER CABLE for DUET

PIN	COLOUR	FUNCTION
1	Red	VL +
2	Black	VL -
3	Brown	VP +
4	Brown	Dout 0
5	White	Din 1
6	Blue	Din 2
7	Blue	PR
8	Sh + G/V	Sh + PE

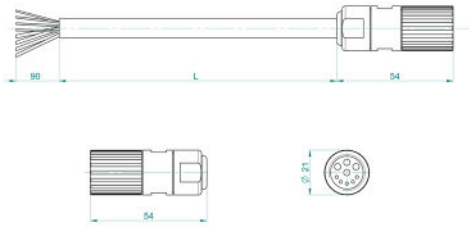


For cable order

Lenght (mm)	Order code
5000	003108020082

POWER CABLE for DUET FLEXI

PIN	COLOUR	FUNCTION
1	Red	24V
2	Blue	0V
3	Brown	48V
4	Yellow/Green	GND
A	White	Motor brake +
B	Black	Motor brake -
C	-	-
D	Brown	Drive brake +
E	Blue	Drive brake -

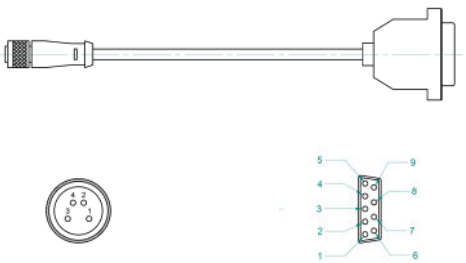


For cable order

Lenght (mm)	Order code
5000	003108012049

RS 232 CABLE for DUET FLEXI

M8 PIN	COLOUR	SUB-D 9 PIN	FUNCTION
1	Brown	3	Rx
2	White	2	Tx
3	Blue	5	Gnd
4	Black	-	DIN7
-	Shield	Metallic case	Shield



For cable order

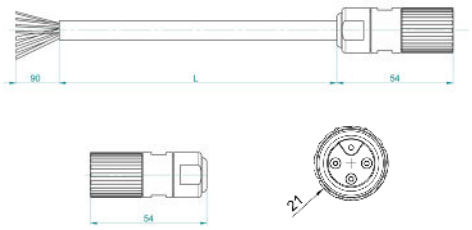
Lenght (mm)	Order code
1000	003108009974
2000	003108009973
3000	003108009975

All cables are for static laying, power cables stand up to 10A stall current.
For dynamic laying cables, please, contact our front office.

CABLES SPECIFICATIONS

POWER CABLE for DUET AD

PIN	COLOUR	FUNCTION
1	Black 1	U Power
2	Black 2	Ballast
3	Black 3	GND
4	Yellow/Green	Earth PE
4	Shield	External cable shield

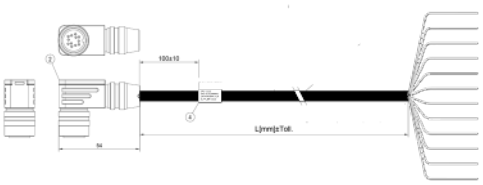


For cable order

Lenght (mm)	Order code
1000	003108020575
5000	003108020546

SIGNAL CABLE for DUET AD

LM MOTOR SIDE	COLOUR	FUNCTION
A	White	IN0
B	Brown	IN1
C	Green	IN2
D	Yellow	IN3
E	Grey	OUT1
F	Pink	OUT2
G	Blue	AI+
H	Red	AI-
J	Brown/Green	Uc (24Vdc)
K	White/Green	GND
L	Black	Service-
M	Violet	Service+



For cable order

Lenght (mm)	Order code
1000	003108020576
5000	003108009843

CABLES SPECIFICATIONS

I/O CABLE for DUET HV 80-100-142

PIN	COLOUR	FUNCTION
1	Brown	IN/OUT 1-
2	Orange	IN/OUT 2-
3	Grey	AN_IN-
4	White	AN_IN+
5	White	IN/OUT 2+
6	Blue	GND_5V
7	Red	+5V
8	Red	IN8
9	Red	OUT5
10	Red	IN/OUT 3
11	Red	IN 7
12	Green	IN/OUT 0-
13	White	IN/OUT 0+
14	White	IN/OUT 1+
15	Orange	IN 4
16	Green	OUT 4
17	Brown	OUT 6
18	Grey	IN 6
19	White	IN 5
Case	Black	PE

For cable order

Lenght (mm)	Order code
1000	005108000505
3000	005108000511
5000	005108000512
10000	005108000513

POWER CABLE for DUET HV 80-100-142

PIN	WIRE IDENTIFICATION	FUNCTION
1	1	HV -
3	3	NC
4	2	HV +
T	Yellow/Green	PE
A	5	/STO
B	6	GND
C	7	IN9
D	8	+24 V
Case	Black	PE

For cable order

Lenght (mm)	Order code
1000	005108000504
3000	005108000507
5000	005108000508
10000	005108000509

CABLES SPECIFICATIONS

RS 232 CABLE for DUET HV 80-100-142

PIN	COLOUR	FUNCTION
1	Red	TXT232
2	Blue	RX232
3	Brown	NC
4	Yellow/Green	GND_COM
Case	White	PE

For cable order

Lenght (mm)	Order code
1000	005108000506

ETHERCAT RJ45/M12 CABLE for DUET HV 80-100-142

RJ45 PIN	M12 PIN	FUNCTION
1	1	TX Data+
3	2	RX Data +
2	3	TX Data -
6	4	RX Data -
Case	Case	PE

For cable order

Lenght (mm)	Order code
10000	005108000500

ETHERCAT M12/M12 CABLE for DUET HV 80-100-142

PIN	FUNCTION
1	TX Data+
2	RX Data +
3	TX Data -
4	RX Data -
Case	PE

For cable order

Lenght (mm)	Order code
3000	005108000503
5000	005108000502
10000	005108000501