

## MTP-NT

## LockingClip Connectors / Cabling

Square post header connectors on the modules (mandatory; no replacement allowed):

2x5pol.= TE Connectivity 826658-5 (DigiKey);

2x7pol.= TE Connectivity 826658-7 (Bürklin 56F6262);

Pin length = 8.0mm (LockingClip only works with 8mm pins [6.7mm barely works, but 8mm is perfect])

**Contacts** Type [Locking-Clip](#) für 0.63x0.63 mm<sup>2</sup> Contact Base Material: Phosphor Bronze; Termination Area: Gold Flash;

Contact Rating 3 A / 12 mOhm; 0.05-0.09 mm<sup>2</sup> (AWG 30...28);

Type **87191-1** Bürklin 59F760 / Farnell 1515585 / RS 4958278

These contacts also work very well up to AWG22 (with our crimping 656075-1 tool and with the cables with mPPE insulation we use). That's why we only use these contacts for our "home use". The professional cable assembler can use contacts according to his "taste" as long as there is a perfect result.



### AMP / TE Hand Crimping Tool **656075-1**

Attention: this tool is marked as „obsolete“, but it is currently the only tool available for manual processing. This is the expert for TE-Crimptools: Jürgen Wenner, Field Service Technician, TE Connectivity +49-6151-607-1518 [tefe1@TE.com](mailto:tefe1@TE.com)

There is a second Hand Crimping tool on the market (also marked as „obsolete“), but only the 656075-1 is recommended at the moment.

Stranded hook-up wires for **Industrial Applications** (cULus approved; Style 11027 (FRNC), [Kabeltronik](#) )

Isolation = mPPE (modified Polyphenyl Ether); -40°C bis +105°C; halogen-free & flame retardant;

Power Lines: AWG22 0,34 mm<sup>2</sup> 7x0,25 Cu tinned outer diameter 1,20 mm

Signal Lines: AWG24 0,22 mm<sup>2</sup> 7x0,20 Cu tinned outer diameter 1,05 mm

Cable		color	AWG	Manufacturer No.	Bürklin Order No.
NT-Bus	Sensor	black	22	099220709	92F130
<b>GND</b>		<b>black</b>	<b>22</b>	099220709	92F130
<b>VBB</b>		<b>red</b>	<b>22</b>	099220708	92F131
SYN	IN+2	yellow	24	099240704	92F124
SCx	IN-2	grey	24	099240705	92F128
SD-	EXC-	blue	24	099240707	92F122
SD+		green	24	099240703	92F123
	IN+1	white	24	099240701	92F127
	IN-1	black	24	099240709	92F120
	EXC+	brown	24	099240702	92F126

Stranded hook-up wires for **High Temperature Applications** (Type E-NPC, NEMA HP-3, [Habia Cable](#) )

Isolation = PTFE (extruded); -65°C bis +260°C;

Power Lines: AWG22 0,38 mm<sup>2</sup> 19x0,16 Cu nickelplated outer diameter 1,30 mm

Signal Lines: AWG24 0,24 mm<sup>2</sup> 19x0,13 Cu nickelplated outer diameter 1,13 mm

Cable		color	AWG	Manufacturer No.	Bürklin Order No.
NT-Bus	Sensor	black	22	412002219	91F6509
<b>GND</b>		<b>black</b>	<b>22</b>	412002219	91F6509
<b>VBB</b>		<b>red</b>	<b>22</b>	412222219	91F6510
SYN	IN+2	yellow	24	412442419	91F6551
SCx	IN-2	grey	24	412882419	91F6553
SD-	EXC-	blue	24	412662419	91F6508
SD+		green	24	412552419	91F6550
	IN+1	white	24	412992419	91F6557
	IN-1	black	24	412002419	91F6506
	EXC+	brown	24	412112419	91F6554

### TE Connectivity/AMP Locking-Clip Receptacle Housings

NT Sensor Connector (2x 5pin; 13,16x6,8 mm<sup>2</sup>): TE Connectivity 926209-5

Bürklin 37P5184 / DigiKey A106769-ND / Mouser 571-926209-5 / RS 4958408

NT System Bus (2x 3pin; 8,1x6,8 mm<sup>2</sup>): TE Connectivity 926209-3

Bürklin 59F731 / DigiKey A121819-ND / Mouser 571-926209-3 / RS 4958391

DataCoil Connector (2pin; 5,54x4,5 mm<sup>2</sup>): TE Connectivity 926657-2

Bürklin 59F700 / DigiKey A106774-ND / Mouser 571-926657-2 / RS 4958357

PCM out or RS232 Connector (3pin; 8,08x4,5 mm<sup>2</sup>): TE Connectivity 926657-3

Bürklin 37P5181 / DigiKey A106775-ND / Mouser 571-926657-3 / RS 4958363

RF Transmitter Connector (4pin; 10,62x4,5 mm<sup>2</sup>): TE Connectivity 926657-4

Bürklin 59F702 / DigiKey A106776-ND / Mouser 571-926657-4 / RS ???

