

# CONTENTS



	Page
Mk -Series	5
Specifications, Option, Consumables	6
Mk 1500	9
Mk 2500	10



PVC Marking Tube, White	13
-------------------------	----



Wire markers	18
Stainless steel markers	18
Cable markers	19
Component markers	19
Marking machines/Labels	20
Cable ties/Engraved plates	21
Accessories	22
PA/PAZ - Closed wire markers	23
PC - Open markers	25
PT+ / PTZ+ - Closed marker sleeve	27
PTC - Open marker sleeve	29
PK - Cable markers	31
PM - Marker sleeve for cables	33
PTM - Marker sleeve for cables	35
PP+/PPA+ - Flat profile for marker sleeves	37
SP - Spiral tubing	38
MK10 - Thermal transfer printer	39
Markers printed by MK10 and examples of application	41



PT-E550WVP	43
P900W / P950NW	47
TZe Tape cartridge advantage	55
Detailed label information	56





People | Power | Partnership  
Industrial Connectors Han®

How to order	58
Han 3A, Han 4A : Inserts 3 and 4 P+PE (screw type) 10A, 230/400V	59
Han 3A : Hoods and Housings (PG & M)	60
Han 3A, Han 4A : Completed set	61
Han A : Inserts 10, 16 and 32P+PE (screw type) 16A, 250V	62
Han A : Hoods and Housings with PG entries	63
Han A : Hoods and Housings with Metric thread	64



# CONTENTS

	Page
Han E : Inserts 6, 10, 16, 24, 32 and 48 P+PE (screw type) 16A, 500V	65
Han E : Inserts 6, 10, 16, 24, 32 and 48 P+PE (crimp type) 16A, 500V	66
Han ES : Inserts 6, 10, 16, 24, 32 and 48 P+PE (cage-clamp) 16A, 500V	67
Han HsB : Inserts 6 and 12 P+PE (screw type) 35A, 400/690V	68
Han Hv E : Inserts 3(5), 6(8), 10(12) and 16(18) P+PE (screw type) 16A, 830V	69
Han K / Han-Com : Inserts, connectors for power and signal contacts	70
Han Staf : Inserts 6, 14, 20 and 40 P, 10A, ~25 Vac / 60 Vdc	71
Han B : Hoods and Housings with PG entries, 1-lever (single lock)	72
Han B : Hoods and Housings with PG entries, 2-levers (double lock)	74
Connectors completed set 6, 10, 16, 24 and 48 P+PE, 16A 500V, 1-lever (single lock)	76
Connectors completed set 10, 16, 24 and 32 P+PE, 16A 500V, 2-levers (double lock)	77
Cable Entry Protection, PG-type : metal cable gland, clamp	79
Han B : Hoods and Housings with Metric thread, 1-lever (single lock)	80
Han B : Hoods and Housings with Metric thread, 2-levers (double lock)	82
Han Q5/0 : Inserts 5P+PE, 16A 230/400V, crimp type and quick lock	84
Han EE : Inserts 10, 18, 32, 46, 64 and 92 P+PE (crimp type) 16A 500V	85
Han E : Crimp contacts, silver plated, 16A	86
Han D, DD : Male Inserts 7, 8, 15, 24, 25, 40, 42, 50(2x25), 64, 72, 80(2x40), 108, 128(2x64), 144(2x72) and 216(2x108) P+PE (crimp type)	87
Han D, DD : Female Inserts 7, 8, 15, 24, 25, 40, 42, 50(2x25), 64, 72, 80(2x40), 108, 128(2x64), 144(2x72) and 216(2x108) P+PE (crimp type)	88
Han D, DD : Crimp contacts, silver plated, 10A	89
Han-Modular : Modular connectors	90
Tools for crimp contacts, crimping tools, removal tools and insertion tools	93
<b>Nanaboshi</b> Specification	96
Round Type Connectors Classify by number of contacts	97
NCS Series	105
NWPC Series (water-proof)	108
NJC and NR Series	111
NJW and NRW Series (water-proof)	113
Accessories for NJC, NR, NJW and NRW Series	115
NET and NEW Series	116
NT Series (water-proof and oil-proof)	117

# CONTENTS

	Page
<b>Amphenol®</b> MIL-C-5015 Connectors	
MS-A Class : Military Standard Connectors	120
How to order	121
MS Basic Construction	122
Contact Arrangements	123
MS3100A : Wall mounting receptacle	133
MS3101A : Cable connecting receptacle	134
MS3102A : Box mounting receptacle	135
MA3106A : Straight plug	136
MA3108A : Right angle plug	137
Accessories for MS Series	138
Insert Arrangements & Alternate Positioning	142
 <b>HIRSCHMANN</b> Industrial connectors	
M8-Circular connectors 3P and 4P, self-assembled	146
M12-Circular female connectors 4P, straight type with cable 2, 5 and 10 m.	148
M12-Circular female connectors 4P, angled type with cable 2, 5 and 10 m.	150
M12-Circular female connectors 4P, straight angled type, self-assembled	152
M12-Circular male connectors 4P, straight type with cable 2, 5 and 10 m.	154
M12-Circular male connectors 4P, angled type with cable 2, 5 and 10 m.	156
M12-Circular male connectors 4P, straight and angled type, self-assembled	158
M12-Circular female and male connectors 4P, front panel mounting	160
GDM : Rectangular connectors, Type A	162
GDML : Rectangular connectors, with LED 24V, 48V, 120V and 250V, Type A	166
GAN : Rectangular connectors, with LED 24V, 120V and 250V and with PVC or PUR cable, length 2 or 5 m. Type A	170
GDM : Rectangular connectors, Appliance connector 4P Type A	172
GDM : Gasket for cable socket GDM Series	173
CA : Circular female connectors 3P+PE and 6P+PE	174
CA : Circular male connectors 3P+PE and 6P+PE	177
CM : Circular connectors, Straight cable socket 4, 5, 6, 6+PE, 7, 14 and 17P	179
CM : Circular connectors, Surface mounted (plug) 4, 5, 6, 6+PE, 7, 14 and 17P	185
CM : Accessories for CM-series	190
 <b>KNIPEX</b>	
Combination Pliers DIN ISO 5746	194
Diagonal Cutters DIN ISO 5749	195
Snipe Nose Side Cutting Pliers (Stork Beak Pliers) DIN ISO 5745	196
Needle-Nose Combination Pliers DIN ISO 5746	197
Pliers for Electrical Installation	198
KNIPEX MultiStrip 10 Automatic Insulation Stripper	200
Self-Adjusting Insulation Strippers	201
Automatic Insulation Stripper	201

# CONTENTS

	Page
KNIPEX ErgoStrip® Universal Dismantling Tool	202
Cable Cutters (ratchet action)	204
Cable Cutters (ratchet principle, 3-stage)	205
Tool Kits	206
KNIPEX CoBolt® Compact Bolt Cutters DIN ISO 5743	208
KNIPEX TwinKey® for all standard cabinets and shut-off systems	210
KNIPEX X-Cut® Compact Diagonal Cutters, high lever transmission DIN ISO 5749	211
KNIPEX TwinForce® High Performance Diagonal Cutter DIN ISO 5749	212
KNIPEX Cobra® QuickSet Hightech Water Pump Pliers DIN ISO 8976	213
KNIPEX Cobra® Hightech Water Pump Pliers DIN ISO 8976	214
Pliers Wrenches pliers and a wrench in a single tool DIN ISO 5743	216
 <b>RENNSTEIG</b> Cable shears D15	220
4/8 Indent crimping tool MicroCrimp	222
MultiCrimp® – from crimp to crimp in 5 seconds	224
Ferrule crimping tools PEW 8.184 / 8.185 / 8.186	226
Ferrule crimping tool PEW 8.87	228
Sets of insulated end sleeves (ferrules) with crimping tools	230
PEW 9 – Light and compact	232
Automatic Centre Punch	233
 <b>bimed</b> <small>CABLE GLANDS &amp; ACCESSORIES</small>	
Standard Glands with Thread, Polyamide	236
Lock Nuts, Flanged, Polyamide	240
Lock Nuts, without Flange, Polyamide	241
Standard Glands with Thread, Brass	242
Lock Nuts, Standard, Metal	246
Lock Nuts, EMC, Metal	247
Enlargers, Brass	248
Adaptors, Brass	249
Reducers, Brass	250
<b>Panasonic</b> Mechanical Flex Tube / Type E	252
Straight Connector	253
Angle Coupling	254
ANSI	255