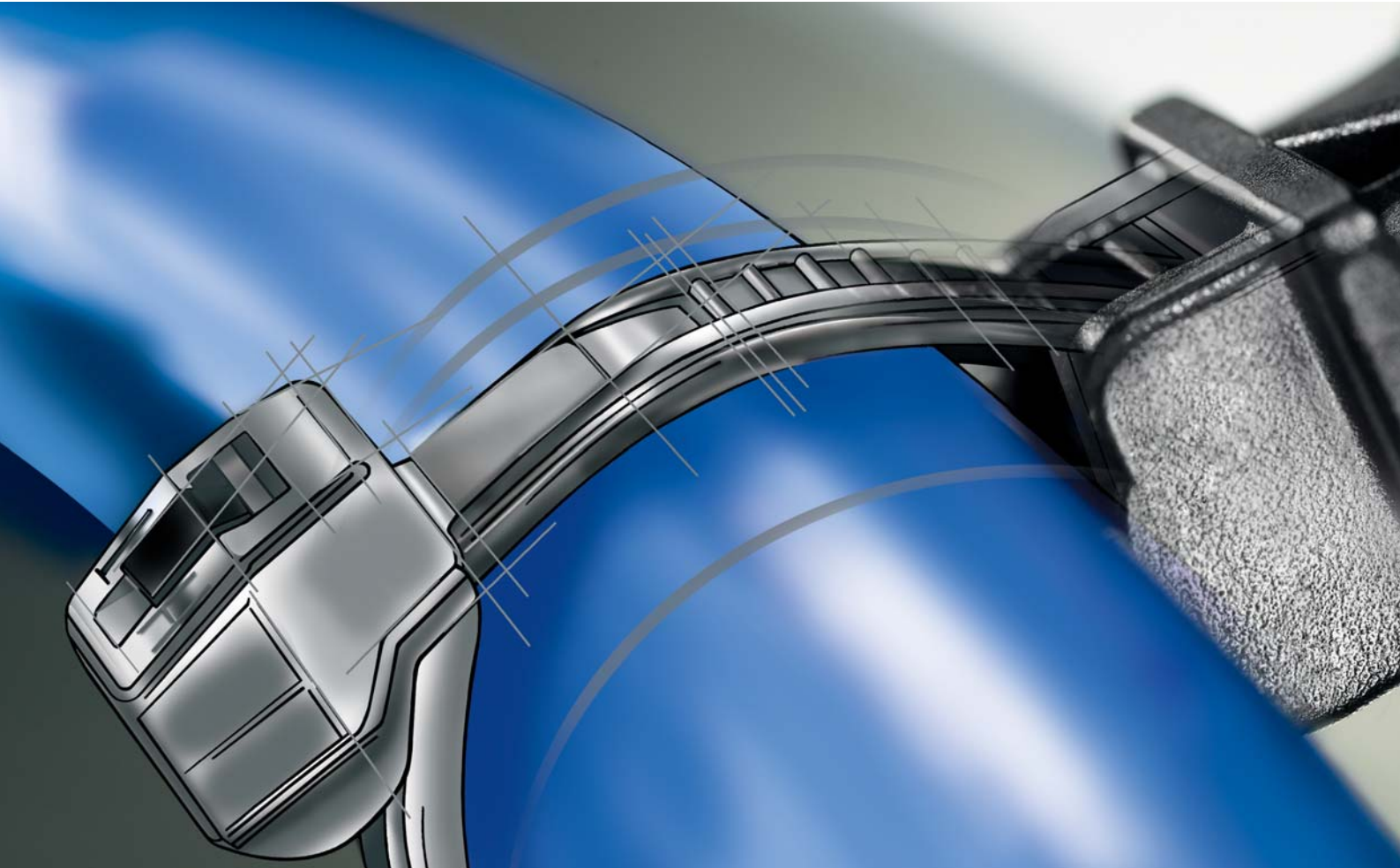


## Cable Ties and Fixings





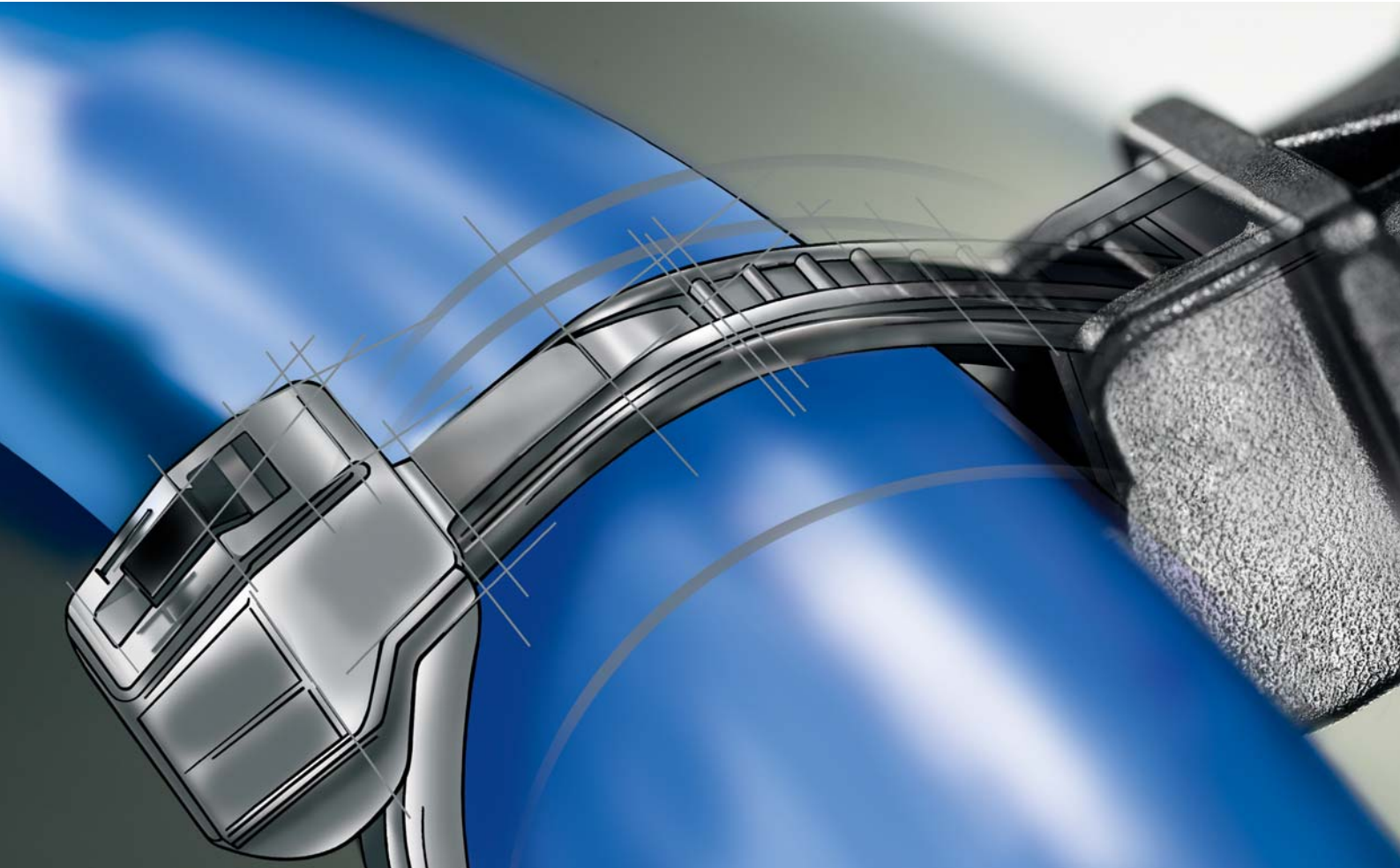
	Page
<b>1.1 Technical Information</b>	28
<b>1.2 Cable Ties Inside Serrated</b>	
Cable Ties inside serrated	
• T-Series	67
Cable Ties Polyamide 6.6 standard	
• T-Series in PA66 natural	68
Cable Ties for outdoor use (UV-resistant)	
• T-Series in PA66W black	69
Cable Ties Polyamide 6.6 standard	
• T-Series in PA66 black	70
• T-Series in PA66 coloured	71
Cable Ties for temperatures up to + 105°C (heat stabilised)	
• T-Series in PA66HS natural	72
• T-Series in PA66HS black	73
Cable Ties for higher impact resistant Polyamide 6.6 ScanBlack	
• T-Series in PA66HIR(S)	74
Cable Ties for higher fire-protection	
• T-Series in PA66V0	75
Cable Ties for temperatures up to + 150°C in Polyamide 4.6	
• T-Series in PA46	75
Cable Ties for higher chemical resistance for temperatures up to +150°C in Ethylentetrafluorineethylene	
• T-Series in E/TFE	76
Cable Ties for higher chemical resistance for temperatures up to +85°C in Polypropylene	
• T-Series in PP	76
Cable Ties for food industry, detectable	
• MCT-Series	77
Cable Ties in-between size to T-Series	
• LK-Series	78
Q-tie Cable Tie	
• Application Q-tie series	79
Cable ties with open head	
• Q-ties, Polyamide 6.6 (PA66), natural and black	81
• Q-ties, Polyamide 6.6 UV-resistant (PA66W), black	82
• Q-ties, Polyamide 6.6 heat stabilised (PA66HS), natural and black	83
• Q-ties, Polyamide 6.6 (PA66), coloured	84
• Q-ties, Polyamide 6.6 (PA66), coloured	85
• Q-ties, Polyamide 6.6 (PA66), coloured	86
Cable Ties for heavy duty application	
• Wide Strap Cable Ties	87
Cable Ties for hose and gaiter	
• CTT-Series up to 265 N loop tensile strength	88
• HT-Series up to 535 N loop tensile strength	88

	Page
Cable Ties for parallel routing	
• DH-Series	89
<b>1.3 Cable Ties Outside Serrated</b>	
Cable Ties for thin-walled bundles	
• OS-Series	91
Cable Ties for high temperature application up to +240°C	
• PEEK Ties	93
Cable tie with 90° angled head	
• V-Series	94
Cable ties with low profile head	
• PE-Series E.D.F. approved	95
• RPE-Series releasable E.D.F. approved	95
• LPH-Series	96
<b>1.4 Releasable Cable Ties</b>	
Cable Ties inside serrated	
• RELK-Series up to 200 N loop tensile strength	97
• RLT-Series up to 670N loop tensile strength	97
Cable Ties inside serrated with tuckaway	
• RT250-Series	98
Cable Ties inside serrated with kickdown lever	
• REL-Series	99
Cable Ties outside serrated for marking	
• LR55-Series	100
Cable Ties without serration in flexible TPU	
• SOFTFIX-Family	101
• SRT-Series for industry quantities	101
Cable Ties inside serrated with one-hand release mechanism	
• REZ-Series	102
Cable Tie with quick release mechanism Speedy-Click	
• SpeedyTie	103
Hook and Loop Ties	
• TEXTIE-Series	104
<b>1.5 Cable Ties Without Serration</b>	
Cable Tie locked by glass fibre pin	
• KR-Series	105
Endless cable ties with separate head and spacer	
• EL-TY-Series	108
<b>1.6 Cable Ties for Direct Fixation</b>	
Cable Ties outside serrated for parallel routing	
• TAS-Series	109

# Cable Ties and Fixings

	Page
Cable Ties inside serrated for cable tray	
• CTF-Series	110
Cable Ties for single hole application (Chassis Tie)	111
<b>1.7 Stainless Steel Cable Ties</b>	
Properties of 304/316 steel (similar to V2A/V4A steel)	112
Metal Banding for Heavy Duty Application	
• AMT-Series	113
Cable Ties with Ball-Lock	
• MBT-Series	114
Double Band Cable Ties with Ball-Lock	
• MBTXHD- / MBTUHD-Series	116
Cable Ties with Ball-Lock and Coating	
• MBT-FC-Series	117
Cable Ties with Fold Locking	
• MLT-Series	118
• MLT-C	118
Cable Ties with Raster Locking	
• MAT-Series	119
• MAT-C	119
Protective Channel for Stainless Steel Ties	
• LFPC	120
<b>1.8 Fixing Ties</b>	
User Guide for fixing ties	121
1-Piece Fixing Ties with Arrowhead, with Disc	
• releasable	123
• for Oval Holes	123
1-Piece Fixing Ties with Arrowhead, with Disc, sealed	
• for Round holes	124
• for Oval holes	124
1-Piece Fixing Ties with Arrowhead, with Disc in the strap	125
1-Piece Fixing Ties with Arrowhead, with Wings	126
1-Piece Fixing Ties with Arrowhead, with Wings, for Oval Holes	127
1-Piece Fixing Ties with Arrowhead, with Wings, releasable	128
1-Piece Fixing Ties with Arrowhead, with Wings in the strap	
• T8ORSF6.5F	129
• T8ORSF6.5FW with rib for convoluted tubes	129
1-Piece Fixing Ties with Arrowhead	
• T3ORSF(U) for max. bundle diameter 31.0 mm	130
• T5ORSF(E) for max. bundle diameter 50.0 mm	130
2-Piece Fixing Ties with Arrowhead, with Disc	131
2-Pieces Fixing Ties with Arrowhead, for Oval Holes	132
2-Pieces Fixing Ties with Arrowhead, for parallel routing	132

	Page
2-Pieces Fixing Ties with Arrowhead, with Disc for high temperature applications	
• T5OROSP1SFT6.5 for panel thickness 0.7 - 1.3 mm	133
• T5OROSP2SFT6.5 for panel thickness 1.7 - 2.3 mm	133
1-Piece Fixing Ties with Fir Tree, with Disc	134
1-Piece Fixing Ties with Fir Tree, with Disc, releasable	135
1-Piece Fixing Ties with Fir Tree, with Disc, for Oval Holes	135
2-Pieces Fixing Ties with Fir Tree, with Disc	136
2-Pieces Fixing Ties with Fir Tree, with Disc, for Oval Holes	137
1-Piece Fixing Ties for Weld Studs	
• T5OSOSSBH5E with plate to fix isolation material	138
• T5OSOSSBS5OTE for cable routing above the stud	138
• T5OSOSSBS5E for cable routing alongside the stud	139
1-Piece Fixing Ties for Weld, moveable	
• T5OSOSSB5-High-E-C-CC for 5 mm studs	139
• T5OSOSSB6HE for 6 mm studs	139
• WSP-Series	139
1-Piece Fixing Ties for Weld Studs	
• LFC-Series for routing close to the stud	140
1-Piece Fixing Ties for Weld Studs, for Heavy Duty Applications	
• WS-Series for 6 mm studs	141
• WSI380 for 9 mm studs	141
1-Piece Fixing Ties for Weld Studs, for Heavy Duty Applications, for parallel routing	
• DCT9 for max. bundle diameter 33.0 mm	142
• DCT11 for max. bundle diameter 58.0 mm	142
• SDCTR312 for 8 mm studs	143
1-Piece Fixing Ties for Weld Studs (Softpush) in the strap	
• Softpush in the strap	144
• Softpush in the strap, releasable	144
• Hardpush in the strap, releasable	144
1-Piece Fixing Ties for Weld Studs (Softpush), releasable, with flexible strap	
• Softpush, releasable, with flexible strap	145
• Hardpush, releasable	145
2-Piece Fixing Ties for Weld Studs	146
2-Piece Fixing Ties for Weld Studs, moveable	146
2-Piece Fixing Ties for Weld Studs	147
2-Piece Fixing Ties for Weld Studs, with Plate (for isolation material)	147
2-Piece Fixing Ties for Weld Studs, for parallel routing	
• T5OSDSB5 for max. bundle diameter 31.0 mm	148
• T5OROSDSB5 for max. bundle diameter 45.0 mm	148
Fixing Ties for Edges	
• 1-Piece, 1.0 - 3.0 mm	149
• 2-Piece, 1.0 - 3.0 mm	149
• 2-Piece, 3.0 - 6.0 mm	149



	Page
EdgeClip-Family	
• 1-Piece Fixing Ties for Edges, 1.0 - 3.0 mm	150
• 2-Piece Fixing Ties for Edges, 1.0 - 3.0 mm	151
• 2-Piece Fixing Ties for Edges, 3.0 - 6.0 mm	152
2-Piece Fixing Ties for Edges, twistable	
• CBT30MR for max. bundle diameter 32.0 mm, rotatable 360°	153
• CBT050R for max. bundle diameter 47.0 mm, rotatable 90°	153
• CBT050RStud5 for max. bundle diameter 47.0 mm, rotatable 90°, for parallel routing	153
2-Piece Fixing Ties for Edges, for Holes	
• T50ROSEC2.5A for routing parallel to an edge	154
• T50RECE2.5B for routing horizontal to an edge	154
2-Piece Fixing Ties	
• with Pipe Clip	155
• with Pipe, twistable 90°	155
2-Piece Fixing Ties with Pipe Clip, twistable 360°	156
2-Piece Fixing Ties for Heavy Duty Applications, for Screws	
• HDM6-Series for M6-Screws	157
• HDM8-Series for M8-Screws	157
1-Piece Fixing Ties with Mounting Head for Screws	158
1-Piece Fixing Ties with rivet	
• releasable	159
• releasable, with flexible strap	159
1-Piece Fixing Ties with peg	
• WPT230	160
1-Piece Fixing Ties with Self Adhesive Socket	
• T18RSA	160
2-Piece Fixing Ties for parallel separation	
• T50RCoupler for max. bundle diameter 2 x 50.0 mm	161
• T120RSingleCoupler for max. bundle diameter 1 x 100.0 mm	161
• T120RCoupler for max. bundle diameter 2 x 100.0 mm	161
<b>1.9 Cable Tie Mounts</b>	
Information and installation instructions for self adhesive mounting bases	162
Fixing Parts with Special Adhesive	
• SolidTack-Series	163
Self Adhesive / Screw Fixing Cable Tie Mounts	
• MB-Series Square-Cut	164
• TY-Series longish design	165
• Q-mount Series QM	166
Paste Adhesive Mount	
• PMB5	167
Screw Fixing Mounts	
• LKC with overlapping curved design	168

	Page
• NY with curved design	168
• KR with curved design for KR-Ties	169
• KR-ETFE for a broad temperature range	169
Screw Fixing Cable Tie Mounts	
• Q-mount Series CTQM	170
Screw Fixing Mounts	
• CTM with curved design for big bundle diameters	171
• CTAM with small space requirement	172
• CTAM-PEEK for high temperature applications up to +240 °C	172
• MB with flat design	173
• TY with compact curved design	173
• LKM / CL with curved design for sideways fixing	174
• FH for sideways fixing	174
Harness Clip for Heavy Duty Applications, for Screws or Studs	
• Standard Torque Mounts	175
• Medium Torque Mounts	175
• High Torque Mounts	176
• HDM375BDM - High Torque Double Mounts	176
Harness Clip for Heavy Duty Applications, for Screws or Studs, for parallel separation	
• S2HM25 with hexagonal retention feature	177
• S2CM25 with a socket counter bore	177
Harness Clip for Heavy Duty Applications, for Screws or Studs for Edges	
• SAOM82 with Turnstop	178
• SAM83 with a socket counter bore	178
Mounting Plates for Screw Fixing	
• MP-Series for M3 screws	179
• MSMP-Series for M5 screws	179
<b>1.10 Fixing Elements</b>	
Cable Fixing Cradle	
• TM1SF for cable ties width up to 5.2 mm	180
Arrowhead Cradle	
• SFC	181
Bundling Clips with Arrowhead	
• Bundling Clips with Arrowhead	182
• Bundling Clips with Arrowhead, sealed	183
Bundling Clips with Arrowhead, moveable	
• CHA1	184
• TCSF76.5CHAMD with foam	184
• CHA2	184
Bundling Clips with Arrowhead for Distance Routing	
• SOC for distance routing 31.0 mm	185
• SOC2 for distance routing 25.0 mm	185
Bundling Clips with Fir Tree	
• for Oval Holes	186

# Cable Ties and Fixings

	Page
• for Distance Routing	187
• for Distance Routing	188
Bundling Clips for Weld Studs	
• Bundling Clips for Weld Studs, movable	189
• Bundling Clips for Weld Studs, movable, for Connectors	189
• Bundling Clips for Weld Studs, movable, with Harness Clip	189
• Bundling Clips for Weld Studs	189
Bundling Clips for Weld Studs, movable	
• BC2212 for distance routing 12.0 and 22.0 mm	190
• BC30 for distance 30.0 mm	190
• Bundling Clips for Screws	190
EdgeClip-Family	
• Bundling Clips for Edges, 1.0 - 3.0 mm	191
• Bundling Clips for Edges, 1.0 - 3.0 mm, for Distance Routing	191
• Bundling Clips for Connectors	192
• Bundling Clips for Connectors, movable	192
Rivet Mount	
• TY5-Series	193
Fixing elements for Parallel Routing, twistable	
• DSWS4 with separation 17.8 mm	194
• DSWS5 with separation 23.6 mm	194
Fixing Elements for BHT-Ties for Distance Routing	
• MSBT120	195
Fixing Elements with Fir Tree, for Distance Routing	
• S3STM50	196
Fixing Elements for BHT-Ties, for Distance Routing	
• CGS1 for Convuluted Tubes	197
Connector Clips for round holes	198
Connector Clips for oval holes	200
EdgeClip-Family	
• Connector Clips for Edges	201
Plastic Nuts	
• KM	202
<b>1.11 Clips and Clamps</b>	
Screw Clips	
• TY8H1 with flat design	203
• ASI-Clipss	203
Self Adhesive Clips	
• RA-Series with round design	204
• RB-Series with flat design	204
• SAC with flexible flat design	205
• 130100 for Flat Ribbon Cables	205
Flat Ribbon Cables Self Adhesive / Screw Fixing	
• FKH-Series	206

	Page
Wire Push In Clips	
• WPC	207
Screw Mount	
• D-Clip Series	208
Fixing Elements for Tubes and Harnesses	
• PC-Series with Arrowhead	209
• PC-Series with Firtree	209
Fixing Elements for Tubes and Harnesses, interconnectable	
• IPC-Series	210
Fixing Elements for Tubes and Harnesses	
• KSFT6.5OC1-3 with Arrowhead for bundle diameter 1.0 - 3.0 mm	211
• KSFT6.5OC7-9 with Arrowhead for bundle diameter 7.0 - 9.0 mm	211
• HC48FT6 with Firtree for bundle diameter 4.8 mm	211
Fixing Elements for Tubes and Harnesses with Automatic Locking Feature	
• AHC-Series	212
EdgeClip-Family	
• Fixing Elements for Tubes and Harnesses, for Edges	213
Fixing Elements for Corrugated Tubing, with Fir Tree	
• CTC-Serie	214
Fixing Elements for Corrugated Tubing, with Arrowhead	215
Fixing Elements for Corrugated Tubing, for Weld Studs	
• CTC-Series	216
Fixing Base	
• LOK-Series	217
Fixing Elements for Weld Studs	218
Plastic Rivets	
• TY	220
Aluminium P-Clips	
• ALU-P-Clip with/without Chloroprene Insert	220
• ALU-P-Clip with/without Chloroprene Insert	221
Fixing Clips Plated Steel and PVC Liner	
• AFCS-Series	222
Fixing Clips Stainless Steel	
• AFCS-Series	222
Plastic P-Clips	
• HP-Series	223
Snapper Hose Clips for Tubes and Harnesses	
• SNP-Series	225
Clips with elasticated loop	
• Cradle Clip	227
Strain Relief Clips	
• Klam-Klip (KK)	228
Maintenance Kit	
• BMS-100	229