

M12 cables & connectors

**M12**  
Quick Search Table

|                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Available Coding  | A-coding                                                                            |                                                                                     | B-coding                                                                            |                                                                                     |
| Rated Current     | 4A                                                                                  |                                                                                     |                                                                                     |                                                                                     |
| Voltage           | 250V                                                                                |                                                                                     |                                                                                     |                                                                                     |
| Wire Gauge / size | 22AWG / 0.34mm <sup>2</sup>                                                         |                                                                                     |                                                                                     |                                                                                     |
| Pin layout        |  |  |  |  |
|                   | Male                                                                                | Female                                                                              | Male                                                                                | Female                                                                              |

**Molded Cable**

**3 Pins**



|                                                                         |     |     |     |     |
|-------------------------------------------------------------------------|-----|-----|-----|-----|
| Straight Connector, Molded Cable                                        | 161 | 161 | 173 | 173 |
| Straight Connector, Molded Cable, Shielded                              | 162 | 162 | 174 | 174 |
| Straight Connector, Molded Cable, Plastic                               | 163 | 163 | 175 | 175 |
| Angled Connector, Molded Cable                                          | 164 | 164 | 176 | 176 |
| Angled Connector, Molded Cable, Shielded                                | 165 | 165 | 177 | 177 |
| Angled Connector, Molded Cable, Plastic                                 | 166 | 166 | 178 | 178 |
| Push-Pull Male Straight Connector, Molded Cable, Shielded               | -   | -   | 179 | -   |
| Straight Connector, Molded Cable, with LED Indicator                    | -   | -   | -   | -   |
| Angled Connector, Molded Cable, with LED Indicator                      | -   | -   | -   | -   |
| Straight Connector, Molded 2 Cables                                     | 170 | 170 | 180 | 180 |
| Angled Connector, Molded 2 Cables                                       | 171 | 171 | 181 | 181 |
| Straight Connector, Molded Cable, Snap-in Type                          | 172 | 172 | 182 | 182 |
| Straight Molded Cable, Quick-lock Type, With Fix-cap                    | -   | -   | -   | -   |
| Straight Molded Cable, Quick-lock Type, Reversed polarity, With Fix-cap | -   | -   | -   | -   |
| Micro-change 1/2"-20UNF Straight Connector, Molded Cable                | -   | -   | -   | -   |

**Assembly Type**

**3 Pins**



|                                                                                                         |     |     |     |     |
|---------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|
| Straight Connector, Field Wirable Assembly, Solder                                                      | 226 | 226 | 240 | 240 |
| Angled Connector, Field Wirable Assembly, Solder                                                        | 227 | 227 | 241 | 241 |
| Straight Connector, Field Wirable Assembly, Screw joint, Shielded                                       | 228 | 228 | 242 | 242 |
| Straight Connector, Field Wirable Assembly, Push-pull type, Shielded                                    | -   | -   | -   | -   |
| Straight Connector, Field Assembly, Crimp Type, Shielded                                                | 230 | 230 | 243 | 243 |
| Straight Connector, Field Wirable Assembly, Piercing                                                    | 231 | 231 | -   | -   |
| Angled Connector, Field Wirable Assembly, Screw joint, Shielded with Die-cast body                      | 232 | 232 | 244 | 244 |
| Straight Connector, Field Wirable Assembly, Screw joint                                                 | 233 | 233 | 245 | 245 |
| Straight Connector, Field Wirable Assembly, Screw joint                                                 | 234 | 234 | 246 | 246 |
| Straight Connector Field Wirable Assembly, Spring clamp terminals                                       | 235 | 235 | 247 | 247 |
| Straight Connector, Field Wirable Assembly, Screw joint, Plastic                                        | 236 | 236 | 248 | 248 |
| Angled Connector, Field Wirable Assembly, Screw joint                                                   | 237 | 237 | 249 | 249 |
| Angled Connector, Field Wirable Assembly, Screw joint, Die-cast Screw/Nut                               | 238 | 238 | 250 | 250 |
| Angled Connector, Field Wirable Assembly, Screw joint, Plastic                                          | 239 | 239 | 251 | 251 |
| Quick-lock Type, Straight Connector, Field Wirable Assembly, With Fix-cap                               | -   | -   | -   | -   |
| Quick-lock Type, Straight Connector, Field Wirable Assembly, Reversed Polarity, With Fix-cap            | -   | -   | -   | -   |
| Straight Connector, Field Wirable Assembly, Outer Push-Pull Thin Type, Shielded, Steel Ball Application | -   | -   | -   | -   |
| Straight Connector, Field Wirable Assembly, Outer Push-pull type, Shielded                              | -   | -   | -   | -   |
| Straight Connector, Male, Assembly Type                                                                 | -   | -   | -   | -   |

**Panel Mount Type**

**3 Pins**



|                                                                                     |         |         |         |         |
|-------------------------------------------------------------------------------------|---------|---------|---------|---------|
| Straight Connector, Panel Mount, Die-cast Screw, Solder, Front fastened             | 279     | 279     | 302     | 302     |
| Straight Connector, Panel Mount, Plastic Solder, Front fastened                     | 280     | 280     | 303     | 303     |
| Straight Connector, Panel Mount, Die-cast Screw, Solder, Rear fastened              | 281     | 281     | 304     | 304     |
| Straight Connector, Panel Mount, Solder, Front fastened                             | 282     | 282     | 305     | 305     |
| Straight Connector, Panel Mount, Plastic Solder                                     | -       | -       | -       | -       |
| Straight Connector, Panel Mount, Solder, Rear fastened                              | 284     | 284     | 306     | 306     |
| Straight Connector, Panel Mount, Solder, Rear fastened, Adjustable Nut              | 285     | 285     | 307     | 307     |
| Push-Pull Female Straight Panel Mount, Front fastened, Shielded                     | -       | 286     | -       | 308     |
| Straight Connector, Rotated Screw, Panel Mounted, Solder, Rear Fastened             | -       | 287     | -       | -       |
| Straight Connector, Panel Mount, Solder, with Flange                                | 288     | 288     | 309     | 309     |
| Straight Connector, Panel Mount, Die-cast Screw, PCB Type, Front fastened           | 289     | 289     | 310     | 310     |
| Straight Connector, Panel Mount, Plastic PCB Type, Front fastened                   | 290/295 | 290/295 | 311     | 311     |
| Straight Connector, Panel Mount, Die-cast Screw, PCB Type, Rear fastened            | 291     | 291     | 312     | 312     |
| Straight Connector, Panel, Die-cast Screw, PCB Type, Front fastened, With Earth Pin | 292     | 292     | 313     | 313     |
| Straight Connector, Panel Mount, PCB Type, Front fastened                           | 293/294 | 293     | 314/315 | 314/315 |
| Straight Connector, Panel Mount, PCB Type, Front Fastened, With Earth Pin           | 296/297 | 296/297 | 316/318 | 316/318 |

| C-coding        |         | A-coding        |         | B-coding |         | C-coding |         | D-coding |         | S-coding |        | T-coding       |        | Quick-lock |        |                 |  |
|-----------------|---------|-----------------|---------|----------|---------|----------|---------|----------|---------|----------|--------|----------------|--------|------------|--------|-----------------|--|
| 4A              |         | 4A              |         |          |         |          |         |          |         |          |        | 12A(40°C)      |        |            |        | 4A              |  |
| 250V            |         | 250V            |         |          |         |          |         |          |         |          |        | 630V           |        | 63V        |        | 250V            |  |
| 22AWG / 0.34mm² |         | 22AWG / 0.34mm² |         |          |         |          |         |          |         |          |        | 16AWG / 1.5mm² |        |            |        | 22AWG / 0.34mm² |  |
|                 |         |                 |         |          |         |          |         |          |         |          |        |                |        |            |        |                 |  |
| Male            | Female  | Male            | Female  | Male     | Female  | Male     | Female  | Male     | Female  | Male     | Female | Male           | Female | Male       | Female |                 |  |
| 3 Pins          |         | 4 Pins          |         |          |         |          |         |          |         |          |        |                |        |            |        |                 |  |
| 185             | 185     | 161             | 161     | 173      | 173     | 185      | 185     | 205      | 205     | 196      | 196    | 201            | 201    | -          | -      |                 |  |
| 186             | 186     | 162             | 162     | 174      | 174     | 186      | 186     | 206      | 206     | 197      | 197    | 202            | 202    | -          | -      |                 |  |
| 187             | 187     | 163             | 163     | 175      | 175     | 187      | 187     | 207      | 207     | 198      | 198    | -              | -      | -          | -      |                 |  |
| 188             | 188     | 164             | 164     | 176      | 176     | 188      | 188     | 208      | 208     | 199      | 199    | -              | -      | -          | -      |                 |  |
| 189             | 189     | 165             | 165     | 177      | 177     | 189      | 189     | 209      | 209     | 200      | 200    | -              | -      | -          | -      |                 |  |
| 190             | 190     | 166             | 166     | 178      | 178     | 190      | 190     | 210      | 210     | -        | -      | -              | -      | -          | -      |                 |  |
| 191             | -       | 167             | -       | 179      | -       | 191      | -       | 211      | -       | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | -               | -       | -        | -       | -        | -       | -        | -       | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | -               | -       | -        | -       | -        | -       | -        | -       | -        | -      | -              | -      | -          | -      |                 |  |
| 193             | 193     | 170             | 170     | 180      | 180     | 193      | 193     | 212      | 212     | -        | -      | -              | -      | -          | -      |                 |  |
| 194             | 194     | 171             | 171     | 181      | 181     | 194      | 194     | 213      | 213     | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | 172             | 172     | 182      | 182     | -        | -       | 214      | 214     | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | -               | -       | -        | -       | -        | -       | -        | -       | -        | -      | -              | -      | 183        | 183    |                 |  |
| -               | -       | -               | -       | -        | -       | -        | -       | -        | -       | -        | -      | -              | -      | -          | 184    |                 |  |
| 192             | 192     | -               | -       | -        | -       | 192      | 192     | -        | -       | -        | -      | -              | -      | -          | -      |                 |  |
| 3 Pins          |         | 4 Pins          |         |          |         |          |         |          |         |          |        |                |        |            |        |                 |  |
| 254             | 254     | 226             | 226     | 240      | 240     | 254      | 254     | 264      | 264     | -        | -      | -              | -      | -          | -      |                 |  |
| 255             | 255     | 227             | 227     | 241      | 241     | 255      | 255     | 265      | 265     | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | 228             | 228     | 242      | 242     | -        | -       | 266      | 266     | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | 229             | -       | -        | -       | -        | -       | -        | -       | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | 230             | 230     | 243      | 243     | -        | -       | 267      | 267     | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | 231             | 231     | -        | -       | -        | -       | -        | -       | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | 232             | 232     | 244      | 244     | -        | -       | 270      | 270     | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | 233             | 233     | 245      | 245     | -        | -       | 271      | 271     | 256      | 256    | 258            | 258    | -          | -      |                 |  |
| -               | -       | 234             | 234     | 246      | 246     | -        | -       | 272      | 272     | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | 235             | 235     | 247      | 247     | -        | -       | 273      | 273     | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | 236             | 236     | 248      | 248     | -        | -       | 274      | 274     | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | 237             | 237     | 249      | 249     | -        | -       | 275      | 275     | 257      | 257    | 259            | 259    | -          | -      |                 |  |
| -               | -       | 238             | 238     | 250      | 250     | -        | -       | 276      | 276     | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | 239             | 239     | 251      | 251     | -        | -       | 277      | 277     | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | -               | -       | -        | -       | -        | -       | -        | -       | -        | -      | -              | -      | 252        | 252    |                 |  |
| -               | -       | -               | -       | -        | -       | -        | -       | -        | -       | -        | -      | -              | -      | -          | 253    |                 |  |
| -               | -       | -               | -       | -        | -       | -        | -       | 268      | -       | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | -               | -       | -        | -       | -        | -       | 269      | -       | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | -               | -       | -        | -       | -        | -       | -        | -       | -        | -      | -              | -      | -          | -      |                 |  |
| 3 Pins          |         | 4 Pins          |         |          |         |          |         |          |         |          |        |                |        |            |        |                 |  |
| 324             | 324     | 279             | 279     | 302      | 302     | 324      | 324     | 354      | 354     | -        | -      | -              | -      | -          | -      |                 |  |
| 325             | 325     | 280             | 280     | 303      | 303     | 325      | 325     | 355      | 355     | -        | -      | -              | -      | -          | -      |                 |  |
| 326             | 326     | 281             | 281     | 304      | 304     | 326      | 326     | 356      | 356     | -        | -      | -              | -      | -          | -      |                 |  |
| 327             | 327     | 282             | 282     | 305      | 305     | 327      | 327     | 357      | 357     | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | 283             | -       | -        | -       | -        | -       | -        | -       | -        | -      | -              | -      | -          | -      |                 |  |
| 328             | 328     | 284             | 284     | 306      | 306     | 328      | 328     | 358      | 358     | -        | -      | -              | -      | -          | -      |                 |  |
| 329             | 329     | 285             | 285     | 307      | 307     | 329      | 329     | 359      | 359     | -        | -      | -              | -      | -          | -      |                 |  |
| -               | 330     | -               | 286     | -        | 308     | -        | 330     | -        | 360     | -        | -      | -              | -      | -          | -      |                 |  |
| -               | -       | -               | 287     | -        | -       | -        | -       | -        | -       | -        | -      | -              | -      | -          | -      |                 |  |
| 331             | 331     | 288             | 288     | 309      | 309     | 331      | 331     | 361      | 361     | -        | -      | -              | -      | -          | -      |                 |  |
| 332             | 332     | 289             | 289     | 310      | 310     | 332      | 332     | 362      | 362     | -        | -      | -              | -      | -          | -      |                 |  |
| 333             | 333     | 290/295         | 290/295 | 311      | 311     | 333      | 333     | 363      | 363     | -        | -      | -              | -      | -          | -      |                 |  |
| 334             | 334     | 291             | 291     | 312      | 312     | 334      | 334     | 364      | 364     | -        | -      | -              | -      | -          | -      |                 |  |
| 335             | 335     | 292             | 292     | 313      | 313     | 335      | 335     | 365      | 365     | -        | -      | -              | -      | -          | -      |                 |  |
| 336/337         | 336/337 | 293/294         | 293     | 314/315  | 314/315 | 336/337  | 336/337 | 366/367  | 366/367 | -        | -      | -              | -      | -          | -      |                 |  |
| 338/339         | 338/339 | 296/297         | 296/297 | 316/318  | 316/318 | 338/339  | 338/339 | 368/369  | 368/369 | -        | -      | -              | -      | -          | -      |                 |  |

| A-coding                                                                        |                                                                                  | B-coding                                                                          |                                                                                   | C-coding                                                                          |                                                                                   | K-coding                                                                          |                                                                                   | L-coding                                                                          |                                                                                   | C-coding                                                                          |                                                                                   | M-coding                                                                           |                                                                                     | Y1-coding                                                                           |                                                                                     | Y3-coding                                                                           |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 4A                                                                              |                                                                                  |                                                                                   |                                                                                   | 2A                                                                                |                                                                                   | 12A                                                                               |                                                                                   | 16A                                                                               |                                                                                   | 2A                                                                                |                                                                                   | 8A                                                                                 |                                                                                     | 10A (Power),0.5A(Signal)                                                            |                                                                                     |                                                                                     |
| 60V                                                                             |                                                                                  |                                                                                   |                                                                                   | 60V                                                                               |                                                                                   | 630V(A/C), NC(D/C)                                                                |                                                                                   | NC(A/C), 63V(D/C)                                                                 |                                                                                   | 30V                                                                               |                                                                                   | 630V A/C NC D/C                                                                    |                                                                                     | 50V                                                                                 |                                                                                     |                                                                                     |
| 22AWG / 0.34mm <sup>2</sup>                                                     |                                                                                  |                                                                                   |                                                                                   | 24AWG / 0.25mm <sup>2</sup>                                                       |                                                                                   | 14AWG / 2.0mm <sup>2</sup>                                                        |                                                                                   | 24AWG / 0.25mm <sup>2</sup>                                                       |                                                                                   | 24AWG / 0.25mm <sup>2</sup>                                                       |                                                                                   | 16AWG / 1.5mm <sup>2</sup>                                                         |                                                                                     | 16/26AWG, 1.25/0.15mm <sup>2</sup>                                                  |                                                                                     |                                                                                     |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male                                                                            | Female                                                                           | Male                                                                              | Female                                                                            | Male                                                                              | Female                                                                            | Male                                                                              | Female                                                                            | Male                                                                              | Female                                                                            | Male                                                                              | Female                                                                            | Male                                                                               | Female                                                                              | Male                                                                                | Female                                                                              | Male                                                                                |
| 5 Pins                                                                          |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 6 Pins                                                                            |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| 161                                                                             | 161                                                                              | 173                                                                               | 173                                                                               | 185                                                                               | 185                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 185                                                                               | 185                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 162                                                                             | 162                                                                              | 174                                                                               | 174                                                                               | 186                                                                               | 186                                                                               | 203                                                                               | 203                                                                               | 204                                                                               | 204                                                                               | 186                                                                               | 186                                                                               | 195                                                                                | 195                                                                                 | 218                                                                                 | 218                                                                                 | 222                                                                                 |
| 163                                                                             | 163                                                                              | 175                                                                               | 175                                                                               | 187                                                                               | 187                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 187                                                                               | 187                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 164                                                                             | 164                                                                              | 176                                                                               | 176                                                                               | 188                                                                               | 188                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 188                                                                               | 188                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 165                                                                             | 165                                                                              | 177                                                                               | 177                                                                               | 189                                                                               | 189                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 189                                                                               | 189                                                                               | -                                                                                  | -                                                                                   | 219                                                                                 | 219                                                                                 | 223                                                                                 |
| 166                                                                             | 166                                                                              | 178                                                                               | 178                                                                               | 190                                                                               | 190                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 190                                                                               | 190                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 167                                                                             | -                                                                                | 179                                                                               | -                                                                                 | 191                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 191                                                                               | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| -                                                                               | -                                                                                | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| -                                                                               | -                                                                                | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 170                                                                             | 170                                                                              | 180                                                                               | 180                                                                               | 193                                                                               | 193                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 193                                                                               | 193                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 171                                                                             | 171                                                                              | 181                                                                               | 181                                                                               | 194                                                                               | 194                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 194                                                                               | 194                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 172                                                                             | 172                                                                              | 182                                                                               | 182                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| -                                                                               | -                                                                                | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| -                                                                               | -                                                                                | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| -                                                                               | -                                                                                | -                                                                                 | -                                                                                 | 192                                                                               | 192                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 192                                                                               | 192                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 5 Pins                                                                          |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 6 Pins                                                                            |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| 226                                                                             | 226                                                                              | 240                                                                               | 240                                                                               | 254                                                                               | 254                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 254                                                                               | 254                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 227                                                                             | 227                                                                              | 241                                                                               | 241                                                                               | 255                                                                               | 255                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 255                                                                               | 255                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 228                                                                             | 228                                                                              | 242                                                                               | 242                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 229                                                                             | -                                                                                | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 230                                                                             | 230                                                                              | 243                                                                               | 243                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 231                                                                             | 231                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 232                                                                             | 232                                                                              | 244                                                                               | 244                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 233                                                                             | 233                                                                              | 245                                                                               | 245                                                                               | -                                                                                 | -                                                                                 | 260                                                                               | 260                                                                               | 262                                                                               | 262                                                                               | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 234                                                                             | 234                                                                              | 246                                                                               | 246                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| -                                                                               | -                                                                                | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 236                                                                             | 236                                                                              | 248                                                                               | 248                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 237                                                                             | 237                                                                              | 249                                                                               | 249                                                                               | -                                                                                 | -                                                                                 | 261                                                                               | 261                                                                               | 263                                                                               | 263                                                                               | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 238                                                                             | 238                                                                              | 250                                                                               | 250                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 239                                                                             | 239                                                                              | 251                                                                               | 251                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| -                                                                               | -                                                                                | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| -                                                                               | -                                                                                | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| -                                                                               | -                                                                                | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| -                                                                               | -                                                                                | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| -                                                                               | -                                                                                | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 5 Pins                                                                          |                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 6 Pins                                                                            |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| 279                                                                             | 279                                                                              | 302                                                                               | 302                                                                               | 324                                                                               | 324                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 324                                                                               | 324                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 280                                                                             | 280                                                                              | 303                                                                               | 303                                                                               | 325                                                                               | 325                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 325                                                                               | 325                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 281                                                                             | 281                                                                              | 304                                                                               | 304                                                                               | 326                                                                               | 326                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 326                                                                               | 326                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 282                                                                             | 282                                                                              | 305                                                                               | 305                                                                               | 327                                                                               | 327                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 327                                                                               | 327                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 283                                                                             | -                                                                                | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 284                                                                             | 284                                                                              | 306                                                                               | 306                                                                               | 328                                                                               | 328                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 328                                                                               | 328                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 285                                                                             | 285                                                                              | 307                                                                               | 307                                                                               | 329                                                                               | 329                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 329                                                                               | 329                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| -                                                                               | 286                                                                              | -                                                                                 | 308                                                                               | -                                                                                 | 330                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 330                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| -                                                                               | 287                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 288                                                                             | 288                                                                              | 309                                                                               | 309                                                                               | 331                                                                               | 331                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 331                                                                               | 331                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 289                                                                             | 289                                                                              | 310                                                                               | 310                                                                               | 332                                                                               | 332                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 332                                                                               | 332                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 290/295                                                                         | 290/295                                                                          | 311                                                                               | 311                                                                               | 333                                                                               | 333                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 333                                                                               | 333                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 291                                                                             | 291                                                                              | 312                                                                               | 312                                                                               | 334                                                                               | 334                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 334                                                                               | 334                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 292                                                                             | 292                                                                              | 313                                                                               | 313                                                                               | 335                                                                               | 335                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 335                                                                               | 335                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 293/294                                                                         | 293                                                                              | 314/315                                                                           | 314/315                                                                           | 336/337                                                                           | 336/337                                                                           | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 336/337                                                                           | 336/337                                                                           | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 296/297                                                                         | 296/297                                                                          | 316/318                                                                           | 316/318                                                                           | 338/339                                                                           | 338/339                                                                           | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 338/339                                                                           | 338/339                                                                           | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |

M12 cables & connectors

| Y3-coding                                                                         | Quick-lock                                                                        |                                                                                   | A-coding                                                                          |                                                                                   | X-coding                                                                          |                                                                                   | Y2-coding                                                                         |                                                                                   | Y4-coding                                                                         |                                                                                   | A-coding                                                                           |                                                                                     | A-coding                                                                            |         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|
| 10A (Power),0.5A(Signal)                                                          | 4A                                                                                |                                                                                   | 2A                                                                                |                                                                                   | 0.5A                                                                              |                                                                                   | 6A (Power),0.5A(Signal)                                                           |                                                                                   |                                                                                   |                                                                                   | 1.5A                                                                               |                                                                                     | 1.5A                                                                                |         |
| 50V                                                                               | 60V                                                                               |                                                                                   | 30V                                                                               |                                                                                   | 50V / 60V                                                                         |                                                                                   | 50V                                                                               |                                                                                   |                                                                                   |                                                                                   | 30V                                                                                |                                                                                     | 30V                                                                                 |         |
| 16/26AWG, 1.25/0.15mm²                                                            | 22AWG / 0.34mm²                                                                   |                                                                                   | 24AWG / 0.25mm²                                                                   |                                                                                   | 27-24AWG / 0.14-0.25mm²                                                           |                                                                                   | 20/26AWG, 0.6/0.15mm²                                                             |                                                                                   |                                                                                   |                                                                                   | 26AWG / 0.14mm²                                                                    |                                                                                     | 26AWG / 0.14mm²                                                                     |         |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |         |
| Female                                                                            | Male                                                                              | Female                                                                            | Male                                                                              | Female                                                                            | Male                                                                              | Female                                                                            | Male                                                                              | Female                                                                            | Male                                                                              | Female                                                                            | Male                                                                               | Female                                                                              | Male                                                                                | Female  |
|                                                                                   |                                                                                   |                                                                                   | 8 Pins                                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 12 Pins                                                                            |                                                                                     | 17 Pins                                                                             |         |
| -                                                                                 | -                                                                                 | -                                                                                 | 161                                                                               | 161                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 161                                                                                | 161                                                                                 | 161                                                                                 | 161     |
| 222                                                                               | -                                                                                 | -                                                                                 | 162                                                                               | 162                                                                               | 215                                                                               | 215/216                                                                           | 220                                                                               | 220                                                                               | 224                                                                               | 224                                                                               | 162                                                                                | 162                                                                                 | 162                                                                                 | 162     |
| -                                                                                 | -                                                                                 | -                                                                                 | 163                                                                               | 163                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 163                                                                                | 163                                                                                 | 163                                                                                 | 163     |
| -                                                                                 | -                                                                                 | -                                                                                 | 164                                                                               | 164                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 164                                                                                | 164                                                                                 | 164                                                                                 | 164     |
| 223                                                                               | -                                                                                 | -                                                                                 | 165                                                                               | 165                                                                               | 217                                                                               | 217                                                                               | 221                                                                               | 221                                                                               | 225                                                                               | 225                                                                               | 165                                                                                | 165                                                                                 | 165                                                                                 | 165     |
| -                                                                                 | -                                                                                 | -                                                                                 | 166                                                                               | 166                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 166                                                                                | 166                                                                                 | 166                                                                                 | 166     |
| -                                                                                 | -                                                                                 | -                                                                                 | 167                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 167                                                                                | -                                                                                   | 167                                                                                 | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 170                                                                               | 170                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 171                                                                               | 171                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 172                                                                               | 172                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | 183                                                                               | 183                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | 184                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
|                                                                                   |                                                                                   |                                                                                   | 8 Pins                                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 12 Pins                                                                            |                                                                                     | 17 Pins                                                                             |         |
| -                                                                                 | -                                                                                 | -                                                                                 | 226                                                                               | 226                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 226                                                                                | 226                                                                                 | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 227                                                                               | 227                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 228                                                                               | 228                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 229                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 230                                                                               | 230                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 231                                                                               | 231                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 232                                                                               | 232                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 233                                                                               | 233                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 234                                                                               | 234                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 236                                                                               | 236                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 237                                                                               | 237                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 238                                                                               | 238                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 239                                                                               | 239                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | 252                                                                               | 252                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | 253                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 278                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
|                                                                                   |                                                                                   |                                                                                   | 8 Pins                                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 12 Pins                                                                            |                                                                                     | 17 Pins                                                                             |         |
| -                                                                                 | -                                                                                 | -                                                                                 | 279                                                                               | 279                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 280                                                                               | 280                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 281                                                                               | 281                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 282                                                                               | 282                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 282                                                                                | 282                                                                                 | 282                                                                                 | 282     |
| -                                                                                 | -                                                                                 | -                                                                                 | 283                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 283                                                                                | -                                                                                   | 283                                                                                 | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 284                                                                               | 284                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 284                                                                                | 284                                                                                 | 284                                                                                 | 284     |
| -                                                                                 | -                                                                                 | -                                                                                 | 285                                                                               | 285                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 285                                                                                | 285                                                                                 | 285                                                                                 | 285     |
| -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 286                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | 286                                                                                 | -                                                                                   | 286     |
| -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 287                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | 287                                                                                 | -                                                                                   | 287     |
| -                                                                                 | -                                                                                 | -                                                                                 | 288                                                                               | 288                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 288                                                                                | 288                                                                                 | 288                                                                                 | 288     |
| -                                                                                 | -                                                                                 | -                                                                                 | 289                                                                               | 289                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 290/295                                                                           | 290/295                                                                           | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 291                                                                               | 291                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 292                                                                               | 292                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -       |
| -                                                                                 | -                                                                                 | -                                                                                 | 293/294                                                                           | 293                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 293/294                                                                            | 293                                                                                 | 293/294                                                                             | 293     |
| -                                                                                 | -                                                                                 | -                                                                                 | 296/297                                                                           | 296/297                                                                           | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 296/297                                                                            | 296/297                                                                             | 296/297                                                                             | 296/297 |

M12 cables & connectors

|                                                                                     |                                                                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <div>M12</div> <div>Quick Search Table</div>                                        | Available Coding                                                                          | A-coding                                                                            |                                                                                     | B-coding                                                                            |                                                                                     |
|                                                                                     | Rated Current                                                                             | 4A                                                                                  |                                                                                     |                                                                                     |                                                                                     |
|                                                                                     | Voltage                                                                                   | 250V                                                                                |                                                                                     |                                                                                     |                                                                                     |
|                                                                                     | Wire Gauge / size                                                                         | 22AWG / 0.34mm²                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                                                                                     | Pin layout                                                                                |  |  |  |  |
| Panel Mount Type                                                                    |                                                                                           | 3 Pins                                                                              |                                                                                     |                                                                                     |                                                                                     |
|   | Straight Connector, Panel Mount, PCB Type, Front Fastened, With Double Earth Pin          | 298                                                                                 | 298                                                                                 | 319                                                                                 | 319                                                                                 |
|                                                                                     | Straight Connector, Panel Mount, PCB Type, Front fastened, shielded                       | -                                                                                   | -                                                                                   | 317                                                                                 | 317                                                                                 |
|                                                                                     | Angled Connector, Panel Mount, PCB Type, Front fastened                                   | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Straight Connector, Panel Mount, Push-Pull With Steel Ball, PCB, Front fastened, Shielded | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Straight Connector, Plastic Housing with O-ring                                           | 301                                                                                 | -                                                                                   | 321                                                                                 | -                                                                                   |
|                                                                                     | Quick-lock Type Panel Mount, Solder, Front fastened                                       | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Quick-lock Type Panel Mount, PCB Type, Front fastened                                     | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Straight Connector, Panel, Solder & Crimp, Front fastened                                 | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Straight Connector, Panel, Solder & Crimp, Rear fastened                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Straight Connector, Panel, PCB Type, Front fastened                                       | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Straight Connector, Panel, PCB Type, Rear fastened                                        | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Angled Connector, Panel Mount, PCB Type, Shielded Shell                                   | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Straight Connector, Panel Mount, PCB Type , Front Fastended                               | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Straight Connector, Panel Mount, Push-Pull Type, Front Fastened                           | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Straight Connector, Panel Mount, Push-Pull Type, Front Fastened, With Steel Ball          | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Straight Connector, Panel Mount, PCB Type, Front Fastened, With Earth Pin                 | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Straight Connector, Panel Mount, PCB Type, Rear Fastened, With Earth Pin                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Straight Connector, Panel Mount, PCB Type, Without Screw, With Earth Pin                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Angled Connector, Panel Mount, PCB Type, fastened, With Earth Pin                         | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Panel Mount, Crimp, Front fastened, With Earth Pin                                        | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Straight Connector, Panel, Front Mount, Shielded                                          | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Straight Connector, Panel Mount, PCB, Front fastened, With Earth Pin                      | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Straight Connector, Panel Mount, PCB, Rear fastened, With Earth Pin                       | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Male-Female Panel Mount                                                                   | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Male-Female Panel Mount, Shielded                                                         | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                                                                                     | Female-Female Panel Mount, Shielded                                                       | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| Adapter & Splitter                                                                  |                                                                                           | 3 Pins                                                                              |                                                                                     |                                                                                     |                                                                                     |
|  | I-Adapter, Male-Male                                                                      | 399                                                                                 | -                                                                                   | 399                                                                                 | -                                                                                   |
|                                                                                     | I-Adapter, Male-Female                                                                    | 400                                                                                 | 400                                                                                 | 400                                                                                 | 400                                                                                 |
|                                                                                     | L-Adapter, Male-Female                                                                    | 401                                                                                 | 401                                                                                 | 401                                                                                 | 401                                                                                 |
|                                                                                     | Y-Splitter                                                                                | 402                                                                                 | 402                                                                                 | 402                                                                                 | 402                                                                                 |
|                                                                                     | T-Splitter, Female-Male-Female                                                            | 403                                                                                 | 403                                                                                 | 403                                                                                 | 403                                                                                 |
|                                                                                     | T-Splitter, Female-Male-Female, Shielded                                                  | 404                                                                                 | 404                                                                                 | 404                                                                                 | 404                                                                                 |
|                                                                                     | T-Splitter, with Molded Cable                                                             | 405                                                                                 | 405                                                                                 | 405                                                                                 | 405                                                                                 |
|                                                                                     | T-Splitte, Plastic with Molded Cable                                                      | 406                                                                                 | 406                                                                                 | 406                                                                                 | 406                                                                                 |
|                                                                                     | T-Splitte, Male-Female, Molded Cable                                                      | 407                                                                                 | 407                                                                                 | 407                                                                                 | 407                                                                                 |
|                                                                                     | Multi-Way 4T-Splitter, Male-3*Female                                                      | 408                                                                                 | 408                                                                                 | 408                                                                                 | 408                                                                                 |
|                                                                                     | Multi-Way 6T-Splitter, Male-5*Female                                                      | 409                                                                                 | 409                                                                                 | 409                                                                                 | 409                                                                                 |
|                                                                                     | Terminator                                                                                | 410                                                                                 | 410                                                                                 | 410                                                                                 | 410                                                                                 |
|                                                                                     | Plastic Terminator                                                                        | 411                                                                                 | 411                                                                                 | 411                                                                                 | 411                                                                                 |
| Protection Cap                                                                      |                                                                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|  | Protection Cap for Male Connector                                                         | 412                                                                                 |                                                                                     |                                                                                     |                                                                                     |
|                                                                                     | Protection Cap for Female Connector                                                       | 412                                                                                 |                                                                                     |                                                                                     |                                                                                     |
|                                                                                     | Protection Cap for Male Connector                                                         | 412                                                                                 |                                                                                     |                                                                                     |                                                                                     |
|                                                                                     | Protection Cap for Male Molded Cable Connector                                            | 413                                                                                 |                                                                                     |                                                                                     |                                                                                     |
|                                                                                     | Protection Cap for Female Molded Cable Connector                                          | 413                                                                                 |                                                                                     |                                                                                     |                                                                                     |
|                                                                                     | Protection Cap for Male Panel-mount Connector                                             | 413                                                                                 |                                                                                     |                                                                                     |                                                                                     |
|                                                                                     | Protection Cap for Female Panel-mount Connector                                           | 414                                                                                 |                                                                                     |                                                                                     |                                                                                     |



[illegible]

## M12 cables & connectors

[illegible]