

# IBS & IBSB ADVANCED



## Halogen-free – Low smoke – Flame retardant Insulated Braided Conductor for Circuit Breakers

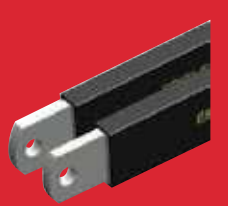
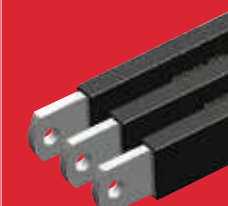
### CIRCUIT BREAKER CONNECTIONS TABLE

| Circuit Breaker Compatibility      |                        |                           |                  |                  |                 |               |               |               |               |
|------------------------------------|------------------------|---------------------------|------------------|------------------|-----------------|---------------|---------------|---------------|---------------|
| Circuit Breaker Current Rating     | 125/160 A              |                           | 250 A            |                  | 300 A           | 350 A         | 400 A         | 500 A         | 630 A         |
| Insulated Braided conductor type   | IBSB ADV 25x           | IBS ADV 25x               | IBSB ADV 50x     | IBS ADV 50x      | IBSB ADV 70x    | IBSB ADV 100x | IBSB ADV 120x | IBSB ADV 185x | IBSB ADV 240x |
| Schneider Electric® Compact® (IEC) | NSA NG 125             | NSX 100 NSX 160           | NSX 250          | NSX 250          | NSX 400         | NSX 400       | NSX 400       | NSX 630       | NSX 630       |
| Square D® PowerPact® (UL)          | H-Frame                | J-Frame                   | J-Frame          | J-Frame          | L-Frame         | L-Frame       | L-Frame       | –             | –             |
| ABB® Tmax® (IEC)                   | T1 T2 XT1 XT2          | –                         | T3 XT3 XT4       | T3 XT3 XT4       | T4              | T4            | T5            | T5            | T5            |
| ABB® Tmax® (UL)                    | T1 T2 XT1 XT2          | T3                        | T4 XT3 XT4       | T4 XT3 XT4       | T5              | T5            | T5            | –             | –             |
| GE® Record Plus® (IEC/UL)          | FD 160                 | FE 160                    | FE 250           | FE 250           | FG 400          | FG 400        | FG 400        | FG 630        | FG 630        |
| Siemens® Sentron® (IEC/UL)         | VL160X 3VL1 VL160 3VL2 | –                         | VL250 3VL3       | VL250 3VL3       | VL400 3VL4      | VL400 3VL4    | VL400 3VL4    | –             | –             |
| Moeller® xEnergy® (IEC)            | NZM1                   |                           | NZM2             | NZM2             | NZM3            | NZM3          | NZM3          | NZM3          | NZM3          |
| Cutler Hammer® Series G (UL)       | EG Frame               | JG Frame                  | JG Frame         | JG Frame         | LG Frame        | LG Frame      | LG Frame      | LG Frame      | LG Frame      |
| Legrand® (IEC)                     | DPX 160 DPX3 160       | –                         | DPX 250 DPX3 250 | DPX 250 DPX3 250 | DPX 630         | DPX 630       | DPX 630       | DPX 630       | DPX 630       |
| Hager® (IEC)                       | h3 160                 | –                         | h3 250           | h3 250           | h3 630          | h3 630        | –             | –             | –             |
| Rockwell/Allen Bradley (UL)        | G-Frame H-Frame        | –                         | I-Frame J-Frame  | I-Frame J-Frame  | I-Frame J-Frame | –             | K-Frame       | K-Frame       | –             |
| Mitsubishi Electric (IEC)          | –                      | NF125 NF160 DSN125 DSN160 | NF250 DSN250     | NF250 DSN250     | –               | NF400 DSN400  | –             | –             | –             |
| OEZ (IEC)                          | BC160N                 | –                         | BD250N BD250S    | BD250N BD250S    | BH630B BH630S   | BH630B BH630S | BH630B BH630S | BH630B BH630S | BH630B BH630S |

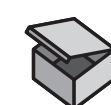
### ACCESSORIES TABLE

|                                                                                     | Designation  | Part N° |  | For insulated braided conductor type |
|-------------------------------------------------------------------------------------|--------------|---------|-------------------------------------------------------------------------------------|--------------------------------------|
|  | Spacer FS 24 | 553550  | 25 pc                                                                               | IBS ADV 25 / 50                      |
|                                                                                     |              |         |                                                                                     | IBSB ADV 25 / 50 / 70 / 100          |
|                                                                                     | Spacer FS 32 | 553560  |                                                                                     | IBSB ADV 120 / 185 / 240             |
|  | End Cover 20 | 541774  | 12 pc                                                                               | IBS ADV 25 / 50 and IBSB ADV 50 / 70 |
|                                                                                     | End Cover 24 | 541775  |                                                                                     | IBSB ADV 100                         |
|                                                                                     | End Cover 32 | 541776  |                                                                                     | IBSB ADV 120 / 185 / 240             |

### ADMISSIBLE CURRENTS TABLE

| Insulated Braided conductor type | Cross Section mm² (kcmil) | Maximum Ampacity Ratings |              |              |              |              |              |              | Current Coefficient                                                                 |                                                                                     |
|----------------------------------|---------------------------|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                  |                           | ΔT 30° C (A)             | ΔT 40° C (A) | ΔT 45° C (A) | ΔT 50° C (A) | ΔT 55° C (A) | ΔT 60° C (A) | ΔT 70° C (A) |  |  |
| IBSB ADV 25                      | 25 (49.34)                | 116                      | 134          | 142          | 150          | 157          | 164          | 177          | 1.6                                                                                 | 2                                                                                   |
| IBS ADV 25                       | 25 (49.34)                | 137                      | 158          | 167          | 177          | 185          | 193          | 209          | 1.6                                                                                 | 2                                                                                   |
| IBS ADV 50 IBSB ADV 50           | 50 (98.68)                | 213                      | 246          | 260          | 274          | 288          | 301          | 325          | 1.6                                                                                 | 2                                                                                   |
| IBSB ADV 70                      | 70 (138.15)               | 226                      | 261          | 277          | 291          | 306          | 319          | 345          | 1.6                                                                                 | 2                                                                                   |
| IBSB ADV 100                     | 100 (197.35)              | 298                      | 344          | 365          | 385          | 404          | 422          | 456          | 1.6                                                                                 | 2                                                                                   |
| IBSB ADV 120                     | 120 (236.82)              | 363                      | 419          | 444          | 468          | 491          | 513          | 554          | 1.6                                                                                 | 2                                                                                   |
| IBSB ADV 185                     | 185 (365.1)               | 416                      | 480          | 509          | 537          | 563          | 588          | 635          | 1.6                                                                                 | 2                                                                                   |
| IBSB ADV 240                     | 240 (473.65)              | 556                      | 642          | 681          | 718          | 753          | 786          | 849          | 1.6                                                                                 | 2                                                                                   |

### PART NUMBER TABLE

| Part Number                                                                           |              |             |              |             |              |               |               |               |               |
|---------------------------------------------------------------------------------------|--------------|-------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|
| Circuit Breaker Current Rating                                                        | 125/160 A    |             | 250 A        |             | 300 A        | 350 A         | 400 A         | 500 A         | 630 A         |
| L (mm)                                                                                | IBSB ADV 25x | IBS ADV 25x | IBSB ADV 50x | IBS ADV 50x | IBSB ADV 70x | IBSB ADV 100x | IBSB ADV 120x | IBSB ADV 185x | IBSB ADV 240x |
| 230                                                                                   | 534400       | 534500      | 534407       | 534507      | 534414       | 534421        | 534428        | –             | –             |
| 330                                                                                   | 534401       | 534501      | 534408       | 534508      | 534415       | 534422        | 534429        | 534435        | 534441        |
| 430                                                                                   | 534402       | 534502      | 534409       | 534509      | 534416       | 534423        | 534430        | 534436        | 534442        |
| 530                                                                                   | 534403       | 534503      | 534410       | 534510      | 534417       | 534424        | 534431        | 534437        | 534443        |
| 630                                                                                   | 534404       | 534504      | 534411       | 534511      | 534418       | 534425        | 534432        | 534438        | 534444        |
| 830                                                                                   | 534405       | 534505      | 534412       | 534512      | 534419       | 534426        | 534433        | 534439        | 534445        |
| 1030                                                                                  | 534406       | 534506      | 534413       | 534513      | 534420       | 534427        | 534434        | 534440        | 534446        |
|  | 10 pc        | 10 pc       | 10 pc        | 10 pc       | 10 pc        | 10 pc         | 2 pc          | 2 pc          | 2 pc          |

