

# XLPE Single Core Cu

## CU CANTOL 70^

### Contact

OLEX CUSTOMER SERVICE - Purchase orders, invoices, general enquiries  
Phone: 1300 CABLES  
olex.customerservice@nexans.com

Nexans ref.: BDBC20AA001CXNA

GTIN: 9319215277270

70mm<sup>2</sup> XLPE / PVC Black

### DESCRIPTION

- Single core, 0.6/1kV X-90 insulated,
- PVC sheathed to AS/NZS 5000.1,
- Copper or aluminium conductors, 90°C.

Mains; Submains



### STANDARDS

**National** AS/NZS 1125; AS/NZS 5000.1



Rated Voltage U<sub>0</sub>/U (Um)  
**0.6/1 kV**



Cable flexibility  
**Rigid**

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## CHARACTERISTICS

### Construction characteristics

|                                |                |
|--------------------------------|----------------|
| Conductor material             | Copper         |
| With Green/Yellow core         | No             |
| Colour                         | Black          |
| Outer sheath                   | PVC            |
| Type of conductor              | Compact copper |
| With smaller neutral conductor | No             |
| Insulation                     | X-90           |

### Dimensional characteristics

|                                |                    |
|--------------------------------|--------------------|
| Nominal insulation thickness   | 1.1 mm             |
| Nominal outer sheath thickness | 1.4 mm             |
| Nominal overall diameter       | 14.7 mm            |
| Conductor cross-section        | 70 mm <sup>2</sup> |
| Approximate weight             | 73.0 kg/100m       |
| Number of cores                | 1                  |

### Electrical characteristics

|                                                   |               |
|---------------------------------------------------|---------------|
| Inductive reactance at 50Hz - trefoil             | 0.092 Ohm/km  |
| Inductive reactance at 50Hz - flat touching       | 0.108 Ohm/km  |
| Max. DC resistance of the conductor at 20°C       | 0.268 Ohm/km  |
| Conductor AC resistance at 50 Hz                  | 0.471 Ohm/km  |
| Insulation resistance at 20°C                     | 270.0 MOhm.km |
| Rated Voltage U <sub>o</sub> /U (U <sub>m</sub> ) | 0.6/1 kV      |

### Mechanical characteristics

|                   |       |
|-------------------|-------|
| Cable flexibility | Rigid |
|-------------------|-------|

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## XLPE/PVC SINGLE CORE - CURRENT CARRYING CAPACITY TABLE SINGLE PHASE (IN AMPS)

Copper Conductor Insulation XLPE Maximum Conductor Temperature 90C

| Conductor cross-section<br>[mm²] |  Cu |  Cu |  Cu |  Cu |  Cu |  Cu |  Cu |  Cu |  Cu |
|----------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 16                               | 112                                                                                  | 108                                                                                  | 86                                                                                   | 84                                                                                   | 67                                                                                   | 43                                                                                     | 139                                                                                    | 100                                                                                    | 112                                                                                    |
| 25                               | 151                                                                                  | 145                                                                                  | 117                                                                                  | 113                                                                                  | 90                                                                                   | 58                                                                                     | 179                                                                                    | 131                                                                                    | 146                                                                                    |
| 35                               | 186                                                                                  | 177                                                                                  | 144                                                                                  | 135                                                                                  | 108                                                                                  | 72                                                                                     | 215                                                                                    | 157                                                                                    | 175                                                                                    |
| 50                               | 228                                                                                  | 216                                                                                  | 176                                                                                  | 166                                                                                  | 133                                                                                  | -                                                                                      | 255                                                                                    | 189                                                                                    | 211                                                                                    |
| 70                               | 291                                                                                  | 273                                                                                  | 224                                                                                  | 204                                                                                  | 164                                                                                  | -                                                                                      | 313                                                                                    | 233                                                                                    | 258                                                                                    |
| 95                               | 361                                                                                  | 338                                                                                  | 278                                                                                  | 255                                                                                  | 204                                                                                  | -                                                                                      | 375                                                                                    | 285                                                                                    | 309                                                                                    |
| 120                              | 422                                                                                  | 393                                                                                  | 325                                                                                  | 292                                                                                  | 233                                                                                  | -                                                                                      | 427                                                                                    | 325                                                                                    | 358                                                                                    |
| 150                              | 486                                                                                  | 451                                                                                  | 375                                                                                  | 329                                                                                  | 263                                                                                  | -                                                                                      | 480                                                                                    | 365                                                                                    | 401                                                                                    |
| 185                              | 565                                                                                  | 522                                                                                  | 436                                                                                  | 387                                                                                  | 309                                                                                  | -                                                                                      | 543                                                                                    | 423                                                                                    | 463                                                                                    |
| 240                              | 678                                                                                  | 622                                                                                  | 522                                                                                  | 461                                                                                  | 369                                                                                  | -                                                                                      | 630                                                                                    | 497                                                                                    | 536                                                                                    |
| 300                              | 787                                                                                  | 718                                                                                  | 605                                                                                  | -                                                                                    | -                                                                                    | -                                                                                      | 711                                                                                    | 562                                                                                    | 620                                                                                    |
| 400                              | 923                                                                                  | 836                                                                                  | 708                                                                                  | -                                                                                    | -                                                                                    | -                                                                                      | 808                                                                                    | 653                                                                                    | 706                                                                                    |
| 500                              | 1078                                                                                 | 966                                                                                  | 821                                                                                  | -                                                                                    | -                                                                                    | -                                                                                      | 913                                                                                    | 739                                                                                    | 800                                                                                    |
| 630                              | 1261                                                                                 | 1113                                                                                 | 950                                                                                  | -                                                                                    | -                                                                                    | -                                                                                      | 1026                                                                                   | 856                                                                                    | 930                                                                                    |

  

|                                                                                                             |                                                                                                                                                    |                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Unenclosed spaced       |  Unenclosed spaced from surface                                 |  Unenclosed touching                                             |
|  Enclosed conduit in air |  Thermal insulation, partially surrounded by thermal insulation |  Thermal insulation, completely surrounded by thermal insulation |
|  Buried direct           |  Underground ducts A - Underground Wiring Enclosure             |  Underground ducts B - Individual Wiring Enclosure               |

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## XLPE/PVC SINGLE CORE - CURRENT CARRYING CAPACITY TABLE THREE PHASE (IN AMPS)

Copper Conductor Insulation XLPE Maximum Conductor Temperature 90C

| Conductor cross-section<br>[mm²] |  Cu |  Cu |  Cu |  Cu |  Cu |  Cu |  Cu |  Cu |  Cu |
|----------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 16                               | 108                                                                                  | 92                                                                                   | 86                                                                                   | 72                                                                                   | 58                                                                                   | 43                                                                                     | 117                                                                                    | 86                                                                                     | 101                                                                                    |
| 25                               | 146                                                                                  | 125                                                                                  | 117                                                                                  | 97                                                                                   | 77                                                                                   | 58                                                                                     | 151                                                                                    | 113                                                                                    | 132                                                                                    |
| 35                               | 180                                                                                  | 154                                                                                  | 144                                                                                  | 120                                                                                  | 96                                                                                   | 72                                                                                     | 180                                                                                    | 137                                                                                    | 158                                                                                    |
| 50                               | 221                                                                                  | 188                                                                                  | 176                                                                                  | 143                                                                                  | 114                                                                                  | -                                                                                      | 214                                                                                    | 163                                                                                    | 190                                                                                    |
| 70                               | 282                                                                                  | 240                                                                                  | 224                                                                                  | 183                                                                                  | 146                                                                                  | -                                                                                      | 262                                                                                    | 203                                                                                    | 232                                                                                    |
| 95                               | 350                                                                                  | 298                                                                                  | 278                                                                                  | 220                                                                                  | 176                                                                                  | -                                                                                      | 313                                                                                    | 244                                                                                    | 276                                                                                    |
| 120                              | 410                                                                                  | 349                                                                                  | 325                                                                                  | 261                                                                                  | 209                                                                                  | -                                                                                      | 356                                                                                    | 284                                                                                    | 320                                                                                    |
| 150                              | 472                                                                                  | 403                                                                                  | 375                                                                                  | 295                                                                                  | 236                                                                                  | -                                                                                      | 400                                                                                    | 320                                                                                    | 358                                                                                    |
| 185                              | 550                                                                                  | 468                                                                                  | 435                                                                                  | 335                                                                                  | 268                                                                                  | -                                                                                      | 452                                                                                    | 363                                                                                    | 413                                                                                    |
| 240                              | 660                                                                                  | 560                                                                                  | 521                                                                                  | 399                                                                                  | 320                                                                                  | -                                                                                      | 523                                                                                    | 426                                                                                    | 477                                                                                    |
| 300                              | 766                                                                                  | 648                                                                                  | 602                                                                                  | 469                                                                                  | 375                                                                                  | -                                                                                      | 589                                                                                    | 491                                                                                    | 552                                                                                    |
| 400                              | 899                                                                                  | 756                                                                                  | 702                                                                                  | 534                                                                                  | 427                                                                                  | -                                                                                      | 668                                                                                    | 557                                                                                    | 626                                                                                    |
| 500                              | 1051                                                                                 | 874                                                                                  | 812                                                                                  | 633                                                                                  | 506                                                                                  | -                                                                                      | 752                                                                                    | 648                                                                                    | 707                                                                                    |
| 630                              | 1230                                                                                 | 1010                                                                                 | 938                                                                                  | 714                                                                                  | 571                                                                                  | -                                                                                      | 843                                                                                    | 727                                                                                    | 820                                                                                    |

  

|                                                                                                             |                                                                                                                                                    |                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Unenclosed spaced       |  Unenclosed spaced from surface                                 |  Unenclosed touching                                             |
|  Enclosed conduit in air |  Thermal insulation, partially surrounded by thermal insulation |  Thermal Insulation, completely surrounded by thermal insulation |
|  Buried direct           |  Underground ducts A - Underground Wiring Enclosure             |  Underground ducts B - Individual Wiring Enclosure               |

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