# SINGLE CORE CU

## 0.6/1KV 1C XLPE NAT/BK


prysmian
E Path

For mains, submains and subcircuits unenclosed, enclosed in conduit, buried or in underground ducts for building and industrial plants where not subject to mechanical damage.

## APPLICATIONS

Building Installations;Residential Installations

## CABLE CONSTRUCTION

**Conductor:** Plain Annealed Copper Conductor - **CLASS 2**
**Insulation:** X-90 XLPE **Colour:** Natural
**Sheath:** 5V-90 PVC **Colour:** Black

## STANDARDS & APPROVALS

| | |
|---|---|
| **AS/NZS 5000.1** | Cable Standard |
| **AS/NZS 1125** | Conductor Standard |
| **AS/NZS 3808** | Material Standard |
| **AS/NZS IEC 60332-1** | Flame Propagation Standard |
| **GREEN STAR** | Best Practice PVC Green Star Approval |

## CABLE CHARACTERISTICS

| | | | |
|---|---|---|---|
| Eco cable | Yes | Low smoke | No |
| Rated voltage U0/U (Um) | 0.6/1 (1.2) kV | Halogen free | No |
| Max. conductor temperature [°C] | 90 | Resistant to UV | Low |
| Flame retardant | Yes | | |

## RECOMMENDED INSTALLATION ENVIRONMENTS

- In Free Air
- In Conduit or Duct
- In Trench/Ground with Protection



**Prysmian Australia Pty Ltd I PH:**1300 300 304 **I Email:** sales.au@prysmian.com **I Website:** https://australia.prysmian.com/

## PHYSICAL CHARACTERISTICS

| Nominal cross section conductor [mm²] | Part number | Conductor strand count | Diameter conductor [mm] | Cable nominal diameter [mm] | Maximum pulling tension conductor [N] | Maximum pulling tension stocking [N] | Cable nominal weight [kg/km] | Minimum bending radius - installed [mm] | Minimum bending radius - during Installation [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 20199463 | 7/1.70 | 5 | 9.4 | 1,100 | 1,100 | 250 | 40 | 60 |
| 25 | 20199469 | 19/1.35 | 6.4 | 11.2 | 1,800 | 1,300 | 350 | 45 | 70 |
| 35 | 20199472 | 19/1.53 | 7.5 | 12.3 | 2,500 | 1,500 | 450 | 50 | 75 |
| 50 | 20199477 | 19/1.78 | 8.8 | 13.8 | 3,500 | 1,700 | 550 | 55 | 85 |
| 70 | 20199483 | 19/2.14 | 10.5 | 15.7 | 4,900 | 1,900 | 750 | 65 | 95 |
| 95 | 20199486 | 19/2.45 | 12.4 | 17.8 | 6,700 | 2,100 | 1,000 | 75 | 110 |
| 120 | 20199493 | 37/2.03 | 14 | 19.6 | 8,400 | 2,400 | 1,250 | 80 | 120 |
| 150 | 20199502 | 37/2.25 | 15.5 | 21.7 | 10,500 | 2,600 | 1,550 | 90 | 130 |
| 185 | 20199507 | 37/2.52 | 17.3 | 23.9 | 13,000 | 2,900 | 1,900 | 100 | 145 |
| 240 | 20199512 | 61/2.25 | 19.9 | 26.9 | 16,800 | 3,200 | 2,450 | 165 | 245 |
| 300 | 20199520 | 61/2.52 | 22.3 | 29.7 | 21,000 | 3,600 | 3,050 | 180 | 270 |
| 400 | 20199530 | 61/2.85 | 25.2 | 33.2 | 25,000 | 4,000 | 3,850 | 200 | 300 |
| 500 | 20199537 | 61/3.20 | 26.6 | 35.2 | 25,000 | 4,200 | 4,900 | 285 | 425 |
| 630 | 20199545 | 59/3.80 | 30.3 | 39.7 | 25,000 | 4,800 | 6,300 | 320 | 480 |

## ELECTRICAL CHARACTERISTICS

| Nominal cross section conductor [mm²] | Part number | DC Resistance at 20°C (Maximum) [Ω/km] | AC Resistance (Maximum) at operating temperature [Ω/km] | Conductor short circuit fault rating [kA for 1 sec] | Current carrying capacity (in ground) [A] | Current carrying capacity (in air) [A] |
|---|---|---|---|---|---|---|
| 16 | 20199463 | 1.15 | 1.47 | 2.3 | 92 | 117 |
| 25 | 20199469 | 0.727 | 0.927 | 3.6 | 125 | 151 |
| 35 | 20199472 | 0.524 | 0.668 | 5 | 154 | 180 |
| 50 | 20199477 | 0.387 | 0.494 | 7.2 | 188 | 214 |
| 70 | 20199483 | 0.268 | 0.342 | 10 | 240 | 262 |
| 95 | 20199486 | 0.193 | 0.247 | 13.6 | 298 | 313 |
| 120 | 20199493 | 0.153 | 0.197 | 17.2 | 349 | 356 |
| 150 | 20199502 | 0.124 | 0.16 | 21.5 | 403 | 400 |
| 185 | 20199507 | 0.0991 | 0.129 | 26.5 | 468 | 452 |
| 240 | 20199512 | 0.0754 | 0.0991 | 34.3 | 560 | 523 |
| 300 | 20199520 | 0.0601 | 0.0803 | 42.9 | 648 | 589 |
| 400 | 20199530 | 0.047 | 0.0646 | 57.2 | 756 | 668 |
| 500 | 20199537 | 0.0366 | 0.0525 | 71.5 | 874 | 752 |
| 630 | 20199545 | 0.0283 | 0.0432 | 90.1 | 1,010 | 843 |

*CURRENT CARRYING CAPACITY IS BASED ON 3 PHASES



**Prysmian Australia Pty Ltd I PH:**1300 300 304 **I Email:** sales.au@prysmian.com **I Website:** https://australia.prysmian.com/