



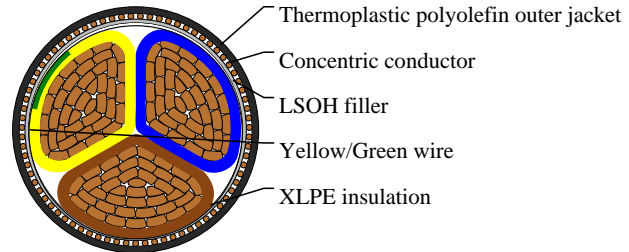
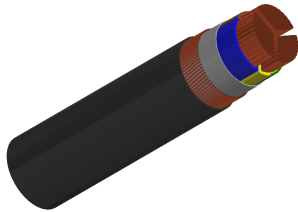
# Caledonian

Industrial Cables (German Standard)

[www.caledonian-cables.com](http://www.caledonian-cables.com)

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## N2XCH



## APPLICATIONS

N2XCH power cables with enhanced resistance to fire are used mostly in areas where harm to human life or material must be prevented in case of fire such as industrial and public buildings, hotels, subway systems, hospitals etc. These cables are suitable for dry and wet environments as well as for outdoor application but are not suitable for direct burial into earth or water.

## STANDARDS

VDE 0276 part 604

VDE 0482-266-2

DIN EN 60332-3 / EN50266-2

## VOLTAGE RATING

600/1000V

## CABLE CONSTRUCTION

- Shaped stranded conductor, plain copper conductor
- to DIN VDE 0295 cl. 2, BS 6360 cl. 2 and IEC 60228 cl 2
- XLPE insulation type 2X11, to HD 604 S1
- Green-yellow ground conductor (3 conductors and above)
- Special LSOH filler
- Concentric conductor: plain round copper wires and one or two transverse counter helix of copper tapes
- Thermoplastic polyolefin compound outer jacket type HM4, to HD 604 S1

## COLOUR CODE

Insulation Colour Code

Color coded to DIN VDE 0293-308

3 cores (G) - Green-Yellow + Brown + Blue

## PHYSICAL AND THERMAL PROPERTIES

- Test voltage: 4000 volts
- Minimum bending radius: 12 x Ø
- Flexing temperature: +5° C to +50° C
- Fixed installation temperature: - 40° C to +90° C



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- Short circuit temperature: +250° C
- Flame retardant: VDE 0482 part 266-2, DIN EN 50266-2 / IEC 60332-3
- Low corrosiveness of combustion gases to DIN VDE 0482 part 267/ EN 50267-2-2/IEC 60754-2
- Halogen-free to DIN VDE 0482 part 267 /EN 50267-2-1/IEC 60754-1
- Smoke density to DIN VDE 0482 part 268/HD 606/BS 7622 PT1,PT2/EN 50268-1,-2/IEC 61034-1,-2
- Insulation resistance: >20 MΩ x km

## DIMENSION AND PARAMETERS

| No. of Cores<br>× Cross-<br>sectional Area | AWG Size | Concentric<br>conductor size | Nominal<br>Insulation<br>Thickness | Approx.<br>Overall<br>Diameter | Nominal<br>Copper Weight | Approx.<br>Weight |
|--|----------|------------------------------|------------------------------------|--------------------------------|--------------------------|-------------------|
| No. × mm <sup>2</sup>                      |          | mm <sup>2</sup>              | mm                                 | mm                             | kg/km                    | kg/km             |
| 3x150                                      | 300MCM   | 150                          | 1.4                                | 45.8                           | 5543                     | 6352              |