



## CABLE STRUCTURE

|                             |   |
|-----------------------------|---|
| <b>Conductor</b>            | Stranded annealed tinned or bare copper wires<br>According to IEC 60228 - Class 2   |
| <b>Semiconductive Layer</b> | Extruded semiconductor layer mixture firmly adhered to insulation.  |
| <b>Insulation</b>           | XLPE - Cross linked polyethylene material.  |
| <b>Semiconductive Layer</b> | Extruded semiconductive peelable material.  |
| <b>Screen</b>               | Copper tape of nominal thickness 0.1 mm helically applied on the semiconductive layer over the insulation, with a minimum overlap of 15%. |
| <b>Outer Jacket</b>         | LSZH material - Halogen-free Flame Retardant polyolefin (Z1)  |
| <b>Color</b>                | Red or other colors on request  |

## STANDARDS & MAIN CHARACTERISTICS

|   |                                |
|---|--------------------------------|
| <b>Operating Temperature</b>            | -25°C / +90°C                  |
| <b>Rated Voltage</b>                    | 5 kV                           |
| <b>Test Voltage</b>                     | 17,5 kV (5 min.)               |
| <b>Bending Radius</b>                   | 15 x Outer Diameter            |
| <b>Standards</b>                        | UNE 21161:2017<br>IEC 60502-2  |
| <b>Flame Retardant</b>                  | IEC 60332-1, IEC 60332/3 Cat A |
| <b>CPR Class - EN 50575:2014+A12016</b> | Cca - s1b, d2, a1              |

Marking Example:

UNTEL CIRCUIT SERIES RHZ1 (AS) 5 kV Cca-s1b, d2, a1 17 UNE 21161

| Construction (*)                       | Cross Section       | Max. Overall Diameter (mm) | Approximate Weight (kg / km) | Max Resistance of Conductors at 20°C (ohm / km) | Current Carrying Capacity at 30°C (A) |
|--|---------------------|----------------------------|------------------------------|---|---------------------------------------|
| BCL2 / EXSC / XLPE / EXSC / CUT / LSZH | 1x6 mm <sup>2</sup> | 18,5                       | 409                          | 3,08  | 52                                    |

(\*) For explanation of coding refer to Technical Data Section