

## APPLICATION

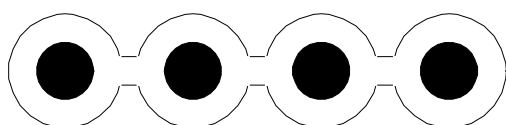
This product is a ribbon cable with a thermoplastic, halogen free, fire retardant, low smoke insulation compound.

Rated Voltage 300/500V

To be used for fixed internal wiring of T.L. lighting devices.

The maximum conductor temperature shall not exceed 100°C.

## CONSTRUCTION



Material	Solid, annealed, bare, copper wire.
Nominal diameter	0.8 mm
<b>Insulation</b>	Thermoplastic compound, based on Polyolefines.
Thickness min	0.53 mm
Thickness mean	0.7 mm
<b>Cable</b>	
Number of conductors	4
Assembly	Conductors insulated in the shape of a ribbon cable. Between the conductors there is a groove giving the possibility to separate the insulated conductors
Thickness	2.20 ± 0.12 mm
Width	9.82 ± 0.22 mm
Pitch	2.54 ± 0.20 mm
Bridge thickness	0.3 - 0.5 mm

## REQUIREMENTS AND TEST METHODS

Electrical		
Resistance of conductor	≤ 36 Ohm/km	HD 21.2 clause 2.1
Voltage test on completed cable at 2000V	Pass	HD 21.2 clause 2.2
Insulation resistance at 95°C	≥ 0.015 Mohm.km	HD 21.2 clause 2.4
Long term resistance of insulation to d.c.	Pass	HD 21.2 clause 2.5
Check of absence of faults on insulation	Pass	HD 21.2 clause 2.6



## MECHANICAL

Elongation before ageing	≥ 125 %	EN60811-1-1 clause 9.1
Ageing	14 days, 140°C	
Elongation after ageing	≥ 125 %	EN60811-1-2 clause 8.1.3.1
Tensile strength before ageing	≥ 12.5 N/mm <sup>2</sup>	EN60811-1-1 clause 9.1
Ageing	14 days, 140°C	
Tensile strength after ageing	≥ 12.5 N/mm <sup>2</sup>	EN60811-1-2 clause 8.1.3.1
Pressure test, 1 hour, 100°C	Indentation ≤ 50 %	EN60811-3-1 clause 8.1
Bending test on insulation, 16 hours, -15°C, Ø 10 mm.	No cracks	EN60811-1-4
Shrinkage test of insulation, 6 hours, 130°C, L = 100 mm.	≤ 4 %	EN60811-1-3
<b>Physical</b>		
Test under fire conditions	Pass	HD405.1
Test on gases evolved during combustion of electric cables		
- PH	≥ 4.3	HD 602 S1: 1992
- Conductivity	≤ 10 µS/mm	HD 602 S1: 1992
Test on smoke density	Pass	HD 606.2 S1 1992

## MARKING

Colour of insulation	White
Colour stripes on one side	Light grey-light orange-white(non stripe)-light blue
Text	Indent printing on insulation
<b>BELDEN (V) VDE-REG.-NR.7090</b>	
CE-marking	On label

## PACKAGING

Reel	Ht PVC 630
Length	3500 meter
Colour marking	On top