

# BLL 20 kV (24)

BLL 24 kV 1X 99 FEAL TRESKIKT

Nexans Ref.: 21054998

Country Ref.: 0620113

BLL is a suspension line suitable for free conducting with a construction voltage at nominal 20 kV.

## DESCRIPTION

BLL is a non-compacted longitudinally water blocked, 1-leading line designed according to SS 424 14 32. The conductor is of different material depending on cross-section: Cross-section 62 and 99 mm<sup>2</sup> is made of FeAl. The cross-sections 159 mm<sup>2</sup> and 241 mm<sup>2</sup> exist in AlMgSi type Al 7. The cable may maximum be loaded to a conductor temperature 70°C. The conductor is covered with PE and of one layers with a black weather proof PE. The line is marked manufacturer / type / year+month / metre marking.

## Lifemark(TM) recycling marking

The external surface of the outer sheath is embossed with a text which specifies all components in the polymers and prepares the cable for future recycling.

## Testing

The conductor is tested in accordance with SS-EN 50397 and 50182.

## Quality and environmental management system

Certified according to ISO 9001, IRIS, ISO/TS 16949 and ISO 14001.



Lifemark™

## STANDARDS

International EN 50182;  
EN 50397



Conductor flexibility  
**Stranded**



Halogen free  
**Yes**



Ope. volt.  
**20 kV**



Rated Voltage U<sub>0</sub>/U  
(Um)  
**12 / 20 (24) kV**



Bending factor  
when laying  
**15 (xD)**



Bending factor  
installed  
**10 (xD)**



Minimum  
installation  
temperature  
**-20 °C**



Maximum operating  
temperature  
**70 °C**

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Generated 1/4/23 [www.nexans.se](http://www.nexans.se) Page 1 / 2

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## CHARACTERISTICS

### Construction characteristics

Conductor material	Aluminum
Conductor shape	Round, stranded
Conductor flexibility	Stranded
Insulation	PE
Colour	Black
Halogen free	Yes

### Dimensional characteristics

Number of cores	1
Conductor cross-section	99 mm <sup>2</sup>
Nominal outer diameter	18.2 mm
Approximate weight	50.0 kg/100m
Average insulation thickness	2.3 mm
Conductor diameter	12.8 mm
Diameter over insulation	18.2 mm

### Electrical characteristics

AC resistance at 110°C, 60Hz	- Ohm/kft
Max. DC resistance of the conductor at 20°C	0.336 Ohm/km
Operating voltage	20 kV
Permissible short circuit current conductor 1s	8.2 kA
Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	12 / 20 (24) kV

### Mechanical characteristics

Breaking load of the suspension strand	30 kN
Calculated breaking load	- kN

### Usage characteristics

Bending factor when laying	15 (xD)
Bending factor when installed	10 (xD)
Minimum installation temperature	-20 °C
Maximum operating temperature	70 °C
Short-circuit max. conductor temperature	200 °C
Weather resistance	Good
Water proof	Longitudinal
Installation type	Aerial Cable
Length	2000 m
Packaging	K14

## SELLING AND DELIVERY INFORMATION

BLL is delivered in lengths of 1000 m. The drum is marked with manufacturer, type of cable and length. The ends of the cable are sealed.