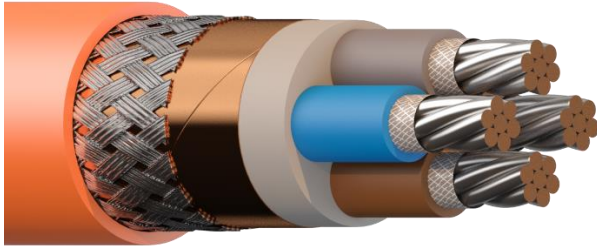


# ATNL 1000 1kV - Armoured Tunnel Cable - Ventilation



**Halogen free, Low Smoke, Oil-resistant and Fire Resistant (1000°C / 3 hours)**

Max conductor temperature: 90°C  
 Voltage rating  $U_0/U$ : 0,6/1kV  
 CENELEC designation:

This drawing is for indication only and may not necessarily be 100% correct according to design, number of cores and colour.

## Application

For installation in tunnels with voltages up to 1kV, where the circuit integrity has to be maintained during a fire. **Especially designed for ventilation systems.** Cu-shield has 100% optical coverage, has low coupling impedance and fulfill the EMC-directive. The cable is UV /sunlight resistant and has an extra protection against oil and diesel. Halogen free cables are recommended to avoid dense smoke and corrosive gasses in case of overheating or a fire.

Expected lifetime atleast 50 years

## Standards

Construction: IEC 60502-1  
 Conductor: IEC 60228 class 2  
 Insulation: IEC 60502-1  
 Armour: IEC 60092-353  
 Sheath: IEC 60092-360  
 Fire resistance: IEC 60331-21 (1000°C / 3 hours)  
 Flame retardant: IEC 60332-3-22 (Cat A) and IEC 60332-1-2  
 Halogen free: IEC 60754-1 / - 2 IEC 60684-2  
 Low smoke: IEC 61034 -1 / -2  
 Cold resistance HD 604-5D (-25°C)  
 Oil resistance IEC 60502-1 (IRM 902 & IRM 903, 30%)  
 UV resistance ISO 4892 part 3

Construction	
Conductor	Stranded tinned copper, Class 2 circular, IEC 60228
Insulation	Mica-tape + EPR
Insulation colours	3X = Brown - Black - Grey 4X = Blue - Brown - Black - Grey 4G = Yellow/Green - Brown - Black - Grey
Inner covering	Halogen free extruded compound
EMC screen /Armour (PE/PEN conductor)	Copper/PET tape under the tinned copper wire braided armour
Outer sheath	Halogen free Compound
Colour	Orange
Sheath Marking	Printed with cable type and dimensions. Meter marking and year of production. Cable type is marked as ATNL 1000
Delivery	Wooden drums



Subject to change without prior notice

Prysmian Group Norge AS  
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No. of cores and cross-section mm <sup>2</sup>	Conductor type (*)	Overall diameter mm	Weight pr 1000 m ca. kg	Part. no.	EI number (Norway only)
3 x 16/16	FR	23,5 ± 1	1160	20196678	1095370
3 x 25/16	FR	27 ± 1	1590	20196679	1095371
3 x 35/16	FR	29,5 ± 1	1950	20196680	1095372
3 x 50/25	FR	33,5 ± 1,5	2590	20196681	1095373
3 x 70/35	FR	38 ± 1,5	3610	20196682	1095374
3 x 95/50	FR	43,5 ± 2,0	4710	20196683	1095375
4 x 16/16	FR	25 ± 1,0	1375	20181657	1095250
4 x 25/16	FR	29,5 ± 1,0	1910	20181658	1095251
4 x 35/16	FR	32 ± 1,5	2410	20181659	1095252
4 x 50/25	FR	37,5 ± 1,5	3220	20181660	1095253
4 x 70/35	FR	42 ± 2,0	4440	20181661	1095254
4 x 95/50	FR	48 ± 2,0	5790	20181662	1095255
4 G 16	FR	25 ± 1,0	1355	20183974	1095256
4 G 25	FR	29,5 ± 1,0	1910	20183975	1095257
4 G 35	FR	32 ± 1,5	2410	20183976	1095258
4 G 50	FR	37 ± 1,5	3170	20183977	1095259
4 G 70	FR	42 ± 2,0	4400	20183978	1095260
4 G 95	FR	47,5 ± 2,0	5700	20183979	1095261

FR = stranded circular

Deliver form and delivery length may be changed.  
Not all sizes are stocked items.

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