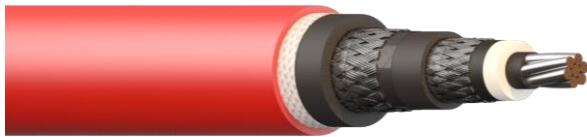


ATNL MV 750 6/10(12)kV Fire Resistant Tunnel Cable



Fire Resistant halogen-free medium voltage (MV) cable. Oil resistant

ATNL MV 750 6/10(12)kV EPR/HBC/TCWB/EVA

Operating temperature : 90°C
 Operating Voltage : 6/10(12) kV

Standards applied

Application

Specially designed fire resistant MV cable. Fixed installation for medium voltage (MV) power in tunnels where the circuit integrity needs to be maintained during a fire. Cable are UV resistant and have extra protection against oil and diesel. **Expected lifetime atleast 50 years**

Design	IEC 60502-2
Conductor	IEC 60228 class 2
Insulation	IEC 60502-2
Armour	IEC 60092-354
Sheath	IEC 60092-360
Fire resistant	IEC 60331-21 (750°C / 2 hours)
Flame Retardant	IEC 60332-1-2
Flame Retardant	IEC 60332-3-22
Halogen Free	IEC 60754-1,2/IEC 60684-2
Low Smoke	IEC 61034-1,2
Oil resistant	IEC 60502-2 (IRM 902 and IRM 903, 30%)
UV resistant	ISO 4892 part 3

Construction

Conductor	Stranded and compressed untinned copper, IEC 60228 class 2
Conductor screen semiconductive	Semi-conductive layer (EP-rubber)
Insulation	EP-rubber, IEC 60092-360 (EPR)
Insulation screen semiconductive	Semi-conductive layer (EP-rubber) Semi-conductive tape
Metallic screen	Tinned copper wire braid
Tape over screen	PET tape
Lay up	Single core cables.
Inner covering	Flame retardant and halogenfree thermoset compound
Tape over inner covering	PET tape
Armour	Tinned annealed copper wire braid
Tape over armour	PET tape + Fire Resistant tape
Heat Block Barrier	Extruded Heat Block Compound
Tape over Heat Block Barrier	Fire resistant tape

Subject to change without prior notice

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ATNL MV 750 10kV e04

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 **PRYSMIAN**
 **Draka**
 **General Cable**

ATNL MV 750 6/10(12)kV Fire Resistant Tunnel Cable

Outer sheath	Flame retardant, halogen-free and oil resistant thermoset compound, SHF2 (IEC 60092-360)
Marking text	E.g. "meter" "year/week" DRAKA 01 Part no. <SAP-code> ATNL MV 750 6/10(12)kV 1 x 120/16 mm2 IEC 60502-2 IEC 60331-21 (750°C) IEC 60332-3-22 Production no. <Production order number>
Manufacturing unit	DRAKA 01 = Draka Norsk Kabel AS
Outer sheath colour	Red

Range and dimensions

Number of elements	Cross section core, mm ²	Electrical Cross section braided armour, mm ²	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness of Heat Block Barrier, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
1	95	16	11.4	3.4	1.1	25 ± 1	0.30	5.0	2.0	41.5 ± 2	3090	1200
1	120	16	12.7	3.4	1.1	26 ± 1	0.30	5.0	2.0	43 ± 2	3380	1405
1	150	16	14.2	3.4	1.2	28 ± 1	0.30	5.0	2.1	45 ± 2	3815	1680
1	185	16	16.1	3.4	1.2	30 ± 1.5	0.30	5.0	2.2	47 ± 2	4300	2013
1	240	25	18.5	3.4	1.2	32 ± 1.5	0.40	5.0	2.2	49.5 ± 2	5170	2702
1	300	25	20.6	3.4	1.2	34.5 ± 1.5	0.40	5.0	2.3	52 ± 2.5	5910	3265

Ordering information

New Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
20183961	ATNL MV 750 12KV 1X 95/16mm ² RD	RED	-	7021528876734	1095290
20183962	ATNL MV 750 12KV 1X 120/16mm ² RD	RED	-	7021528876741	1095291
20183963	ATNL MV 750 12KV 1X 150/16mm ² RD	RED	-	7021528876758	1095292
20183964	ATNL MV 750 12KV 1X185/16mm ² RD	RED	-	7021528876765	1095293
20183965	ATNL MV 750 12KV 1X 240/25mm ² RD	RED	-	7021528876772	1095294
20183966	ATNL MV 750 12KV 1X 300/25mm ² RD	RED	-	7021528876789	1095295

Electrical values power cables

Number of elements	Cross section core, mm ²	Electrical Cross section braid, mm ²	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Capacitans per phase, nF/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
1	95	16	0.195	0.249	0,137	0,164	380	293	13300
1	120	16	0.154	0.196	0,136	0,163	410	339	16800
1	150	16	0.126	0.161	0,129	0,155	450	389	21000
1	185	16	0.100	0.128	0,124	0,149	480	444	25900
1	240	25	0.0762	0.0972	0,119	0,143	540	522	33600
1	300	25	0.0607	0.0774	0,114	0,137	590	601	42000

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 General Cable

ATNL MV 750 6/10(12)kV Fire Resistant Tunnel Cable

Ambient temperature correction factors

Ambient Temp °C	35	40	45	50	55	60	65	70	75	80
Rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	0.47

Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
18 x D	12 x D	50 N x total cross section (mm ²) of conductors	-20°C

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