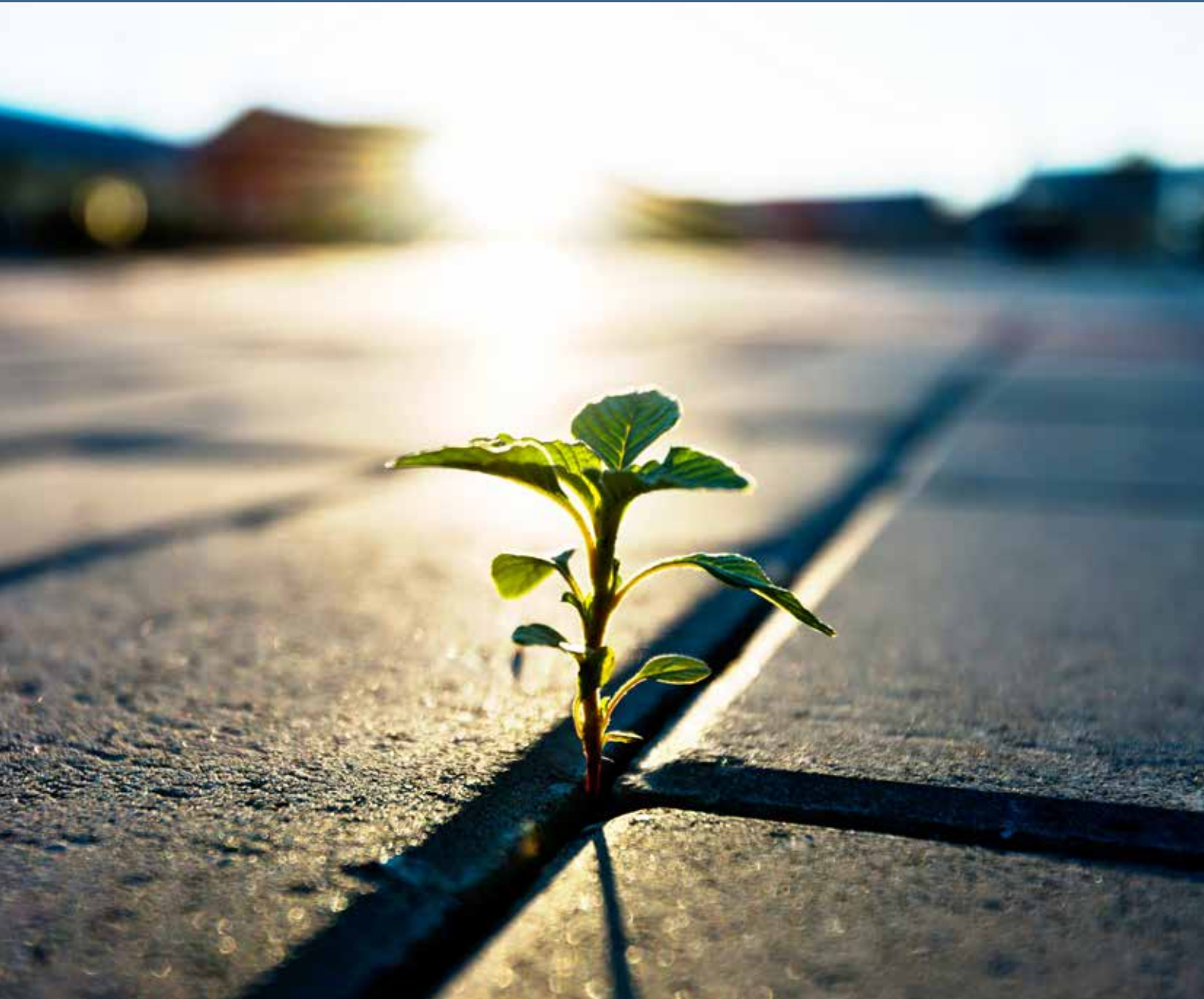


It thrives in numerous places.

Our underground power cables will flourish no matter where.



Prysmian
Group



Prysmian underground power cables are true groundbreakers.

Our underground power cables will flourish no matter where.

You can bury our underground power cables at power and industrial plants or switchgears, in cable ducts, trenches and open air. They'll submit to the circumstances and ensure a steady flow of electricity. Prysmian cables are the flowers of diversity.

UNDERGROUND POWER CABLES

Application

All our power distribution cables are designed to be installed in industries and switchgears, as well as in local mains. For fixed installation underground in interior premises, cable ducts, in the open air (if UV protected), in water – as permitted by the local building regulations – if no risk of any mechanical damage is to be expected.

In the following tables you'll be able to compare our different power distribution cables to make sure you choose the right one for your project.

MAIN FEATURES

- ✓ Diverse – many installation possibilities
- ✓ UV resistant
- ✓ Flame retardant outer sheath
- ✓ Silicon and cadmium free

COMMITTED TO SERVICE

Effective and efficient production secures the demands for cables.



"The key to success is a strong collaboration between process engineering, maintenance and production."
Márton Balog, Balassagyarmat plant manager, Prysmian Group Hungary

To make sure we can provide you with all the cables that you need, we make recurring investments in our Hungarian manufacturing plants. By securing that we are up to date, we are always ready to provide customers and communities worldwide with cable solutions based on state-of-the-art technology, consistent excellence in execution and in-depth understanding of the needs of an evolving market.

As the tough gets going, and you need a manufacturer that can live up to tighter and tighter delivery times as well as products fit for the future, you can rest assured we are ready to deliver.

Do you want to know more? Visit our website: www.prysmiangroup.com

CORRELATION TABLE

	NAYY	E-AYY
		
Global data		
Type designation	NAYY-J 4 x 150 SM 0.6/1 kV	E-AYY-J 4 x 150 SM 0.6/1 kV
Flame resistancy	EN 60332-1	EN 60332-1
Standard	DIN VDE 0276-603	ÖVE/ÖNORM E 8200-603
Number of conductors + Conc. cond.	4	4
Min. thickness of insulation	1.52 mm	1.52 mm
Nom. thickness of insulation	1.8 mm	1.8 mm
Nom. thickness of inner covering	1.4 mm	0.5 mm
Nom. thickness of screening	-	-
Min. thickness of outersheat	2.50 mm	2.11 mm
Nom. thickness of outersheat	2.5 mm	2.6 mm
Nom. outer diameter of cable	48.3 mm	45.1 mm
Nom. weight of cable	3220 kg/km	2630 kg/km
Max. resistance of conductors	0.206 Ω/km	0.206 Ω/km
Max. resistance of screening or conc. cond.	-	-
Usage of concentric conductor	-	-
Construction characteristics		
Conductor	Stranded and compacted sectorial	Stranded and compacted sectorial
Insulation	PVC	PVC
Inner covering	Extruded	PP or PVC tapes
Screening or Concentric conductor	-	-
Outer sheath	PVC	PVC
Available colours	Black	Black
Marking	NAYY-J 4 x 150 SM 0.6/1 kV	E-AYY-J 4 x 150 SM 0.6/1 kV TAPE
Mechanical characteristics		
Min. bending radius	12D	12D
Electrical parameters		
Available voltage levels	0.6/1 kV	0.6/1 kV*
Test voltage (AC)	4 kV	4 kV
Chemical parameters		
Lead free	Yes	Yes
Thermal parameters		
Max. operating temperature of conductor	70 °C	70 °C
Min. installation temperature	-5 °C	-5 °C
Types of installation		
In air (indoors and/or outdoors)	PERMITTED, protected against direct sunshine	PERMITTED, protected against direct sunshine
In earth	Cables laid in ground are sufficiently protected against mechanical damages	Cables laid in ground are sufficiently protected against mechanical damages
In water (except in rivers and lakes)	PERMITTED	-
Direct laying in concrete	PERMITTED	PERMITTED
In ducts/pipes	Inner diameter of ducts and pipes at least 1.5 D	PERMITTED

* The cables are also suitable for DC-operation

	NAYCWY	AYCWY	SZAMKAM
			
Global data			
Type designation	NAYCWY 4 x 150 SM/150 0.6/1 kV	AYCWY 4x 150 SM/50 0.6/1 kV	SZAMKAM 4 x 150 SM 0.6/1 kV
Flame resistancy	EN 60332-1	EN 60332-1	EN 60332-1
Standard	DIN VDE 0276-603	MSZ IEC 60502-1	MSZ IEC 60502-1
Number of conductors + Conc. cond.	4+1	4+1	4
Min. thickness of insulation	1.52 mm	1.52 mm	1.52 mm
Nom. thickness of insulation	1.8 mm	1.8 mm	1.8 mm
Nom. thickness of inner covering	0.1 mm	0.1 mm	2*0.2 mm
Nom. thickness of screening	1.65 mm	1.08 mm	2*0.25 mm
Min. thickness of outersheat	2.60 mm	1.88 mm	1.88 mm
Nom. thickness of outersheat	2.6 mm	2.3 mm	2.6 mm
Nom. outer diameter of cable	51.0 mm	49.6 mm	47.1 mm
Nom. weight of cable	4165 kg/km	3710 kg/km	2885 kg/km
Max. resistance of conductors	0.206 Ω/km	0.206 Ω/km	0.206 Ω/km
Max. resistance of screening or conc. cond.	0.206 Ω/km	0.387 Ω/km	1.91 Ω/km
Not permitted as neutral conductor	Not permitted as neutral conductor	Not permitted as neutral conductor	-
Construction characteristics			
Conductor	Stranded and compacted sectorial	Stranded and compacted sectorial	Stranded and compacted sectorial
Insulation	PVC	PVC	PVC
Inner covering	Extruded	Extruded	PVC tapes
Screening or Concentric conductor	Wave-form copper wires + copper binding tape	Wave-form copper wires + copper binding tape	AL tapes
Outer sheath	PVC	PVC	PVC
Available colours	Black	Black	Black
Marking	NAYCWY 4 x 150 SM/150 0.6/1 kV	AYCWY 4 x 150 SM/50 0.6/1 kV	SZAMKAM 4 x 150 SM 0.6/1 kV
Mechanical characteristics			
Min. bending radius	12D	12D	12D
Electrical parameters			
Available voltage levels	0.6/1 kV	0.6/1 kV	0.6/1 kV
Test voltage (AC)	4 kV	3.5 kV	3.5 kV
Chemical parameters			
Lead free	Yes	Yes	Yes
Thermal parameters			
Max. operating temperature of conductor	70 °C	70 °C	70 °C
Min. installation temperature	-5 °C	-5 °C	-5 °C
Types of installation			
In air (indoors and/or outdoors)	PERMITTED, protected against direct sunshine	PERMITTED, protected against direct sunshine	PERMITTED, protected against direct sunshine
In earth	Cables laid in ground are sufficiently protected against mechanical damages	Cables laid in ground are sufficiently protected against mechanical damages	Cables laid in ground are sufficiently protected against mechanical damages
In water (except in rivers and lakes)	PERMITTED	-	-
Direct laying in concrete	PERMITTED	-	-
In ducts/pipes	Inner diameter of ducts and pipes at least 1.5 D	Inner diameter of ducts and pipes at least 2 D	Inner diameter of ducts and pipes at least 2 D

Please note, that above we presented an example, for our full offer range check our homepage:

www.prysmiangroup.hu

Linking the future

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