Fast track to success.

Made in Germany

Our complete railway cable offer will make you a winner.

prysmian

The planet's pathways

Connecting the world.

Today and in the future.

Prysmian – the world leader in the energy and telecom cables and systems industry.

With 150 years' experience, Prysmian is strongly positioned in high-tech markets and offers the widest possible range of products, services, technologies and know-how.

150
YEARS OF EXPERIENCE

26
R&D CENTRES AROUND THE WORLD

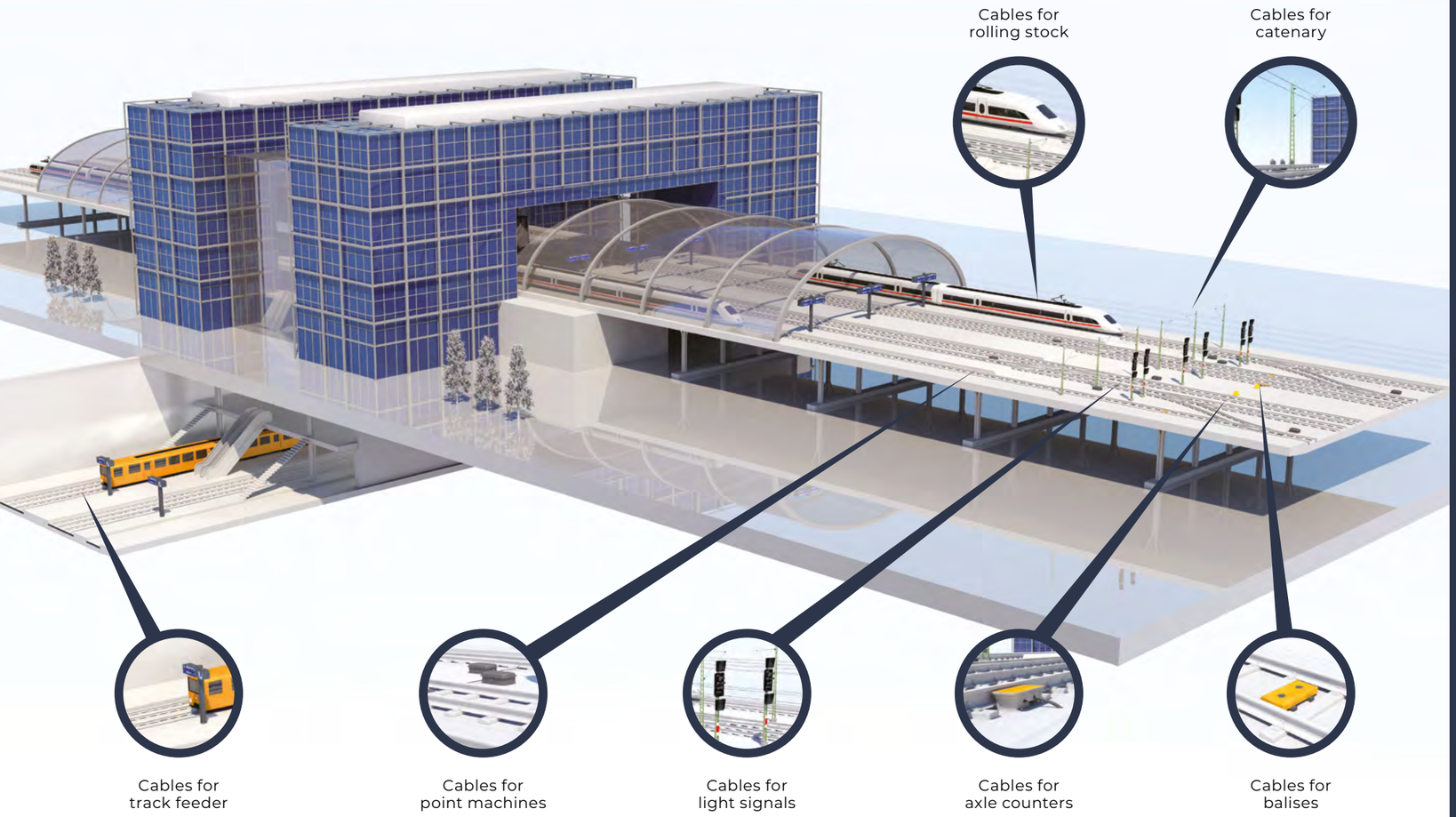
We specialise in underground and submarine cables and systems for power transmission and distribution, special cables for applications in many different industries, and medium and low voltage cables for the construction and infrastructure sectors.

For the telecommunications industry, Prysmian is the world's largest provider of cutting-edge cables and accessories for voice, video and data transmission, offering a comprehensive range of optical fibres, optical and copper cables and connectivity systems.

We are committed to environmental responsibility in our production processes, the protection of the global environment, and the responsible management of relations with the local communities in which we work.

For us, innovation means meeting the needs of our customers and communities by understanding their business drivers as quickly as they do. To do that, our team of over 900 Research & Development professionals is constantly looking to the future, predicting and identifying emerging trends in each of our industries and sectors. Acting on this intelligence from 25 R&D centres around the world, we're constantly close to our customers in their own local markets.

Railway Infrastructure Cables



Cables for any application.

Made in Germany

In principle, applications in the inter-city, metro and/or local traffic transport sectors are the same: the power supply of the trains, earth cables, points machines, signal lights, axle counters and beacons, as well as wireless technology such as GSM-R or radio communication. For all of these applications cables are needed.

Power supply of trains
- AC or DC, continuous load
- High currents and tensions
- Large conductor cross-sections

Earthing
- High return current flows
- Medium conductor cross-sections

Point machines
- Only short-term power load, no continuous load, ≤ 380 V
- Small conductor cross-sections up to 2.5 mm²

Signal lights
- Continuous load, low tensions and currents, 24-48 V
- Small conductor cross-sections up to 2.5 mm²

Axle counters
- Hf requirements
- No continuous load
- Small conductor cross-sections up to 2.5 mm²

Beacon cables
- Hf requirements
- No continuous load
- Small conductor cross-sections up to 2.5 mm²

GSM-R/radio communication
- Data supply via fibre optic cables
- Use of radiating coaxial cables in tunnels
- Telecommunication and data cables

VDE designation codes for cables.

1. Cable Type

A-	Outdoor cable
AJ-	Outdoor cable with protection against inductive interference

2. Cable Design

2Y	Polyethylene (PE) insulation material
02Y	Cellular polyethylene (PE) insulation material
02YS	Foam-skin polyethylene (PE) insulation material
DF	Loose tube (fibre optic cable)
F	Petroleum jelly filling compound
OF	Low capacitance filling compound
TF	Filling with water swellable yarns and fleeces
(L)2Y	Moisture barrier sheath (laminated AL-foil bonded to PE sheath)
(St)	Screen of copper tape
D	Screen of concentrically positioned copper wires
Z	Screen of concentrically positioned aluminium wires
(ZG)	Non-metallic tensile strength elements
(SR)	Armouring of corrugated steel tape, longitudinally applied
B	Armouring of helically applied steel tape
Y	Polyvinyl chloride (PVC) sheathing material
2Y	Polyethylene (PE) sheathing material
4Y	Polyamid (PA) sheathing material
H	Halogen free, flame retardant sheathing material
V	Reinforced sheathing

LSZH-FR

LS	Low smoke
ZH	Zero halogen
FR	Flame/Fire retardant

Contents

A-2Y(L)2YB2Y H45

Railway signalling cables for applications with transmission of low frequent signals through symmetric circuits like axle counters and similar. For installation directly on or into the ground or in ducts. Increased mechanical protection due to additional steel tape armouring. Stranding pattern: n x 4 x 0.9 / 1.4 mm.

A-2Y(L)2YB2Y H45		
Certifications and Standards	Deutsche Bahn AG 416.0115 V 1.1	
Diameter conductor [mm]	0.9	1.4
Loop resistance [Ohm]	≤ 56.6	≤ 23.4
Insulation resistance [MΩ·km]	≥ 10000	≥ 10000
Max. operation capacitance [nF/km]	≤ 45 *)	≤ 45 *)
Capacitance unbalance at 800 Hz		
k_1 (100 % / 50 % all values) [pf/500 m]	≤ 650 / ≤ 150	≤ 650
$k_{9\text{-}12}$ (neighboured quads) [pf/500 m]	≤ 500 / ≤ 150	≤ 500
$k_{9\text{-}12}$ (over-neighboured quads) [pf/500 m]	≤ 150	≤ 150
$e_{a1/2}$ [pf/500 m]	≤ 1300	≤ 1300
Far-end crosstalk attenuation at 90 kHz 100 % / 80 % all values [dB/km]	≥ 58 / ≥ 62	≥ 33
Attenuation at 90 kHz [dB/km]	≤ 3.3	≤ 2.6
Test voltage [kV] 50 Hz - 1 min		
core/core	2.5	2.5
core/screen	2.5	2.5

*) ≤ 52 nF/km for one quad cable and for central quads, where 1st layer consists only of one quad, as well as in the outer layer of armoured cables.

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/family/A-2Y(L)2YB2Y_H45

A-2YOF(L)2YB2Y H95

Railway signalling cables for operation of light signals or point machines or similar applications. For installation directly on or into the ground or in ducts. Cable design with improved mutual capacitance value for higher distances. Increased mechanical protection due to additional steel tape armouring. Stranding pattern: n x 1 x 1.4 / 1.8 mm.

A-2YOF(L)2YB2Y H95		
Certifications and Standards	Deutsche Bahn AG PH 416.0114 v.2.1	
Diameter conductor [mm]	1.4	1.8
Conductor resistance at 20° C [Ohm/km]	≤ 11.9	≤ 7.2
Insulation resistance [MΩ·km]	≥ 1500	≥ 1500
Max. operation capacitance [nF/km]	≤ 95 *)	≤ 95 *)
Nominal voltage U [V]	600	600
Nominal voltage U_0 [V]	420	420
Test voltage [kV] 50 Hz - 1 min		
core/core	2.5	2.5
core/screen	2.5	2.5

*) ≤ 105 nF/km for single core in cable core.

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/family/A-2YOF(L)2YB2Y_H95

A-2YOF(L)2YB2Y H115

Railway signalling cables for operation of light signals or point machines or similar applications. For installation directly on or into the ground or in ducts. Increased mechanical protection due to additional steel tape armouring. Stranding pattern: n x 1 x 0.9 mm.

A-2YOF(L)2YB2Y H115	
Certifications and Standards	Deutsche Bahn AG PH 416.0113 v.2.1
Diameter conductor [mm]	0.9
Conductor resistance at 20°C [Ohm/km]	≤ 28.9
Insulation resistance [MΩ·km]	≥ 1500
Max. operation capacitance [nF/km]	≤ 115 *)
Nominal voltage U [V]	600
Nominal voltage U_0 [V]	420
Test voltage [kV] 50 Hz - 1 min	
core/core	2.5
core/screen	2.5

*) ≤ 120 nF/km for single core in cable core.

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/family/A-2YOF(L)2YB2Y_H115

A-2YOF(L)2YB2Y H145

Railway signalling cables for operation of light signals or point machines or similar applications. For installation directly on or into the ground or in ducts. Increased mechanical protection due to additional steel tape armouring. Stranding pattern: n x 1 x 1.4 / 1.8 mm.

A-2YOF(L)2YB2Y H145		
Certifications and Standards	Deutsche Bahn AG PH 416.0113 v.2.1	
Diameter conductor [mm]	1.4	1.8
Conductor resistance at 20° C [Ohm/km]	≤ 11.9	≤ 7.2
Insulation resistance [MΩ·km]	≥ 1500	≥ 1500
Max. operation capacitance [nF/km]	≤ 145 *)	≤ 145 *)
Nominal voltage U [V]	600	600
Nominal voltage U_0 [V]	420	420
Test voltage [kV] 50 Hz - 1 min		
core/core	2.5	2.5
core/screen	2.5	2.5

*) ≤ 155 nF/km for single core in cable core.

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/family/A-2YOF(L)2YB2Y_H145

AJ-2Y(L)2Y2YDB2Y

Combi cables are used as railway signalling cables to combine applications with transmission of low frequent signals through symmetric circuits like axle counters with power supply cores for light signals or point machines in one cable. Suitable for installation along electrified tracks. Additional copper wire screen as protection against inductive interference. Increased mechanical protection due to additional steel tape armouring. Stranding pattern: n x 4 x 0.9 / 1.4 + m x 1 x 1.4 / 1.8 mm.

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/family/AJ-2Y(L)2Y2YDB2Y

AJ-2Y(L)2Y2YDB2Y			
Certifications and Standards	Deutsche Bahn AG PH 416.0118		
Star-quad stranded cores			
Diameter conductor [mm]	0.9	1.4	1.8
Loop resistance [Ohm]	≤ 56.6	≤ 23.4	–
Insulation resistance [MΩ·km]	≥ 10000	≥ 10000	–
Max. operation capacitance [nF/km]	≤ 45 *)	≤ 45 *)	–
Capacitance unbalance at 800 Hz			
k_1 [pf/500 m]	≤ 650	≤ 650	–
$k_{9\text{-}12}$ (neighboured quads) [pf/500 m]	≤ 500	≤ 500	–
$k_{9\text{-}12}$ (over-neighboured quads) [pf/500 m]	≤ 150	≤ 150	–
$e_{a1/2}$ [pf/500 m]	≤ 1300	≤ 1300	–
Far-end crosstalk attenuation at 40 kHz 1 [dB/km]	≥ 60	≥ 60	–
Characteristic impedance at 40 kHz [Ω]	130 ± 12%	130 ± 12%	–
Attenuation at 40 kHz [dB/km]	≤ 2.6	≤ 1.5	–
Core stranded cores			
Diameter conductor [mm]	0.9	1.4	1.8
Conductor resistance at 20° C [Ohm/km]	≤ 28.9	≤ 11.9	≤ 7.2
Insulation resistance [MΩ·km]	≥ 10000	≥ 10000	≥ 10000
Max. operation capacitance [nF/km]	≤ 120	≤ 120	≤ 120
Test voltage [kV] 50 Hz - 1 min			
core/core	2.5	2.5	2.5
core/screen	2.5	2.5	2.5
Reduction factor at 16.666 Hz			
for class 600	0.55 at appr. 100 V/km		
for class 500	0.35 at appr. 75 V/km		
for class 400	0.15 at appr. 100 V/km		

*) ≤ 52 nF/km for one quad cable and for central quads, where 1st layer consists only of one quad, as well as in the outer layer of armoured cables.

AJ-2YOF(L)2YDB2Y H115

Cables are used as railway signalling cables for operation of light signals or point machines or similar applications. For installation directly on or into the ground or in ducts. Suitable for installation along electrified tracks. Additional copper wire screen as protection against inductive interference. Increased mechanical protection due to additional steel tape armouring. Stranding pattern: n x 1 x 0.9 mm.

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/family/AJ-2YOF(L)2YDB2Y_H115

AJ-2YOF(L)2YDB2Y H115	
Certifications and Standards	Deutsche Bahn AG PH 416.0113 v.2.1
Diameter conductor [mm]	0.9
Conductor resistance at 20° C [Ohm/km]	≤ 28.9
Insulation resistance [MΩ·km]	≥ 1500
Max. operation capacitance [nF/km]	≤ 115 *)
Nominal voltage U [V]	600
Nominal voltage U_0 [V]	420
Test voltage [kV] 50 Hz - 1 min	
core/core	2.5
core/screen	2.5
Reduction factor at 16.666 Hz	
for class 600	0.55 at appr. 100 V/km
for class 500	0.35 at appr. 75 V/km
for class 400	0.15 at appr. 100 V/km

*) ≤ 120 nF/km for single core in cable core.

AJ-2Y(L)2YDB2Y H45

Cables are used as railway signalling cables for applications with transmission of low frequent signals through symmetric circuits like axle counters and similar. For installation directly on or into the ground or in ducts. Suitable for installation along electrified tracks. Additional copper wire screen as protection against inductive interference. Increased mechanical protection due to additional steel tape armouring. Stranding pattern: n x 4 x 0.9 / 1.4 mm.

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/family/AJ-2Y(L)2YDB2Y_(H45)

AJ-2Y(L)2YDB2Y H45		
Certifications and Standards	Deutsche Bahn AG 416.0115 V 1.1 Deutsche Bahn AG 416.0116 V 2.0	
Diameter conductor [mm]	0.9	1.4
Loop resistance [Ohm]	≤ 56.6	≤ 23.4
Insulation resistance [MΩ·km]	≥ 10000	≥ 10000
Max. operation capacitance [nF/km]	≤ 45 *)	≤ 45 *)
Capacitance unbalance at 800 Hz		
k_1 (100% / 50% all values) [pf/500 m]	≤ 650 / ≤ 150	≤ 650
$k_{9\text{-}12}$ (neighboured quads) [pf/500 m]	≤ 500 / ≤ 150	≤ 500
$k_{9\text{-}12}$ (over-neighboured quads) [pf/500 m]	≤ 150	≤ 150
$e_{a1/2}$ [pf/500 m]	≤ 1300	≤ 1300
Far-end crosstalk attenuation at 90 kHz 100% / 80% all values [dB/km]	≥ 58 / ≥ 62	≥ 33
Attenuation at 90 kHz [dB/km]	≤ 3.3	≤ 2.6
Test voltage [kV] 50 Hz - 1 min		
core/core	2.5	2.5
core/screen	2.5	2.5
Reduction factor at 16.666 Hz		
for class 600	0.55 at appr. 100 V/km	
for class 500	0.35 at appr. 75 V/km	
for class 400	0.15 at appr. 100 V/km	

*) ≤ 52 nF/km for one quad cable and for central quads, where 1st layer consists only of one quad, as well as in the outer layer of armoured cables.

AJ-2YOF(L)2YDB2Y H95

Cables are used as railway signalling cables for operation of light signals or point machines or similar applications. Cable design with improved mutual capacitance value for higher distances. For installation directly on or into the ground or in ducts. Suitable for installation along electrified tracks. Additional copper wire screen as protection against inductive interference. Increased mechanical protection due to additional steel tape armouring. Stranding pattern: n x 1 x 1.4 / 1.8 mm.

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/family/AJ-2YOF(L)2YDB2Y_H95

AJ-2YOF(L)2YDB2Y H95		
Certifications and Standards	Deutsche Bahn AG PH 416.0114 v.2.1	
Diameter conductor [mm]	1.4	1.8
Conductor resistance at 20° C [Ohm/km]	≤ 11.9	≤ 7.2
Insulation resistance [MΩ·km]	≥ 1500	≥ 1500
Max. operation capacitance [nF/km]	≤ 95 *)	≤ 95 *)
Nominal voltage U [V]	600	600
Nominal voltage U_0 [V]	420	420
Test voltage [kV] 50 Hz - 1 min		
core/core	2.5	2.5
core/screen	2.5	2.5
Reduction factor at 16.666 Hz		
for class 600	0.55 at appr. 100 V/km	
for class 500	0.35 at appr. 75 V/km	
for class 400	0.15 at appr. 100 V/km	

*) ≤ 105 nF/km for single core in cable core.

AJ-2YOF(L)2YDB2Y H145

Cables are used as railway signalling cables for operation of light signals or point machines or similar applications. They may be installed directly on or into the ground or in ducts. Suitable for installation along electrified tracks. Additional copper wire screen as protection against inductive interference. Increased mechanical protection due to additional steel tape armouring. Stranding pattern: n x 1 x 1.4 / 1.8 mm.

AJ-2YOF(L)2YDB2Y H145		
Certifications and Standards	Deutsche Bahn AG PH 416.0113 v.2.1	
Diameter conductor [mm]	1.4	1.8
Conductor resistance at 20° C [Ohm/km]	≤ 11.9	≤ 7.2
Insulation resistance [MΩ·km]	≥ 1500	≥ 1500
Max. operation capacitance [nF/km]	≤ 145 *)	≤ 145 *)
Nominal voltage U [V]	600	600
Nominal voltage U_0 [V]	420	420
Test voltage [kV] 50 Hz - 1 min		
core/core	2.5	2.5
core/screen	2.5	2.5
Reduction factor at 16.666 Hz		
for class 600	0.55 at appr. 100 V/km	
for class 500	0.35 at appr. 75 V/km	
for class 400	0.15 at appr. 100 V/km	

*) ≤ 155 nF/km for single core in cable core.

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/family/AJ-2YOF(L)2YDB2Y_H145

FEBI

Cables are used as railway signalling cables for operation of light signals or point machines or similar applications. For installation directly on or into the ground or in ducts. Increased mechanical protection due to additional steel tape armouring. The cables are flame retardant according IEC 60332-1. Stranding pattern: n x 1 x 1.5 / 2.5 mm.

FEBI		
Certifications and Standards	Bane Nor specification (Norway) Flame retardant acc. to IEC EN 60332-1	
Nominal cross section conductor [mm²]	1.5	2.5
Conductor resistance at 20° C [Ohm/km]	≤ 12.1	≤ 7.41
Insulation resistance [MΩ·km]	1000	1000
Nominal voltage U [V]	750	750
Test voltage [kV] 50 Hz - 1 min		
core/core	12	12
core/screen	12	12

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/family/FEBI

Return conductor cables with theft protection.

These cables are intended for fixed installation for use as urban railway return conductor cable in outdoor installations or in cable troughs. In accordance to DIN VDE 0276-603.

Coming soon!

(N)R2XB2Y 1x500RM + 4x1.5 RE 0.6/1 kV

500 mm² return conductor cable with 4 control cores in CPR class F, followed by CPR class B2.

(N)2X2Y 1x120RF 0.6/1kV

120 mm² return conductor cable, halogen free.

AJ-02YSTF(L)2YDB2Y

TK-Cable for general cabling as replacement in new installations for cables with F-, TF-, TFS- and Coax-design elements acc. to Deutsche Bahn AG PH 416.0530 v.1.1. For installation directly on or into the ground or in ducts. Suitable for installation along electrified tracks. Additional copper wire screen as protection against inductive interference. Increased mechanical protection due to additional steel tape armouring. Stranding pattern: n x 4 x 1.4 + m x 4 x 0.9 mm.

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/family/AJ-02YSTF(L)2YDB2Y

AJ-02YSTF(L)2YDB2Y		
Certifications and Standards	Deutsche Bahn AG PH 416.0530 v.1.1	
Diameter conductor [mm]	0.9	1.4
Loop resistance [Ohm]	≤ 56.6	≤ 23.4
Insulation resistance [MΩ·km]	≥ 10000	≥ 10000
Max. operation capacitance [nF/km]	≤ 34	≤ 36
Capacitance unbalance at 800 Hz		
k_1 [pf/km]	≤ 400	≤ 400
$k_{9\text{-}12}$ [pf/km]	≤ 400	≤ 400
$e_{a1/2}$ [pf/km]	≤ 1650	≤ 1650
Attenuation at		
800 Hz [dB/km]	≤ 0.60	≤ 0.40
1 MHz [dB/km]	≤ 8.5	≤ 8.0
Test voltage [kV] 50 Hz - 1 min		
core/core	2.5	2.5
core/screen	2.5	2.5

More electrical values as well as completion of values and corresponding notes shall be taken form the specification of Deutsche Bahn PH 416.0530 v1.1.

AJ-02YSF(L)2YDB2Y

Railway station communication cables for operation of telecommunication and data transmission networks in acc. to Deutsche Bahn AG PH 416.0531 v.1.0. For installation directly on or into the ground or in ducts. Suitable for installation along electrified tracks. Additional copper wire screen as protection against inductive interference. Increased mechanical protection due to additional steel tape armouring.

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/category/a1q3Y000006bUvdQAE/subcategory/a1q3Y000006bUvsQAE

AJ-02YSF(L)2YDB2Y	
Certifications and Standards	Deutsche Bahn AG PH 416.0531 v.1.0
Diameter conductor [mm]	0.8
Loop resistance [Ohm]	≤ 73.2
Insulation resistance [MΩ·km]	≥ 5000
Max. operation capacitance [nF/km]	≤ 42
Capacitance unbalance at 800 Hz	
k_1 [pf/km]	≤ 2660
$k_{9\text{-}12}$ [pf/km]	≤ 1330
Attenuation at 800 Hz [dB/km]	≤ 0.69
Test voltage [kV] 50 Hz - 1 min	
core/core	0.5
core/screen	2.0

More electrical values as well as completion of values and corresponding notes shall be taken form the specification of Deutsche Bahn PH 416.0531 v1.0.

A-02YSF(L)2Y

Railway station communication cables for operation of telecommunication and data transmission networks in acc. to Deutsche Bahn AG PH 416.0531 v.1.0. For installation directly on or into the ground or in ducts.

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/category/a1q3Y000006bUvdQAE/subcategory/a1q3Y000006bUvsQAE

A-02YSF(L)2Y	
Certifications and Standards	Deutsche Bahn AG PH 416.0531 v.1.0
Diameter conductor [mm]	0.8
Loop resistance [Ohm]	≤ 73.2
Insulation resistance [MΩ·km]	≥ 5000
Max. operation capacitance [nF/km]	≤ 42
Capacitance unbalance at 800 Hz	
k_1 [pf/km]	≤ 2660
$k_{9\text{-}12}$ [pf/km]	≤ 1330
Attenuation at 800 Hz [dB/km]	≤ 0.69
Test voltage [kV] 50 Hz - 1 min	
core/core	0.5
core/screen	2.0

More electrical values as well as completion of values and corresponding notes shall be taken form the specification of Deutsche Bahn PH 416.0531 v1.0.

(N)AStYY 0.6/1 kV

These aluminium-cables are intended for fixed installation as railway earthing cables for short-circuit proof PE-connection or potential equalization between rail and connective, but not energized parts (e.g. overhead line masts, fixtures of train pre-heating device, sound protection panels, guardrails).

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/family/(N)AStYY_0,6-1kV

(N)AStYY 0.6/1kV	
Type designation	(N)AStYY
Standard	DIN VDE 0276-603, DIN EN 60228, DIN EN 60332-1-2
Conductor	Aluminium-magnesium alloy with steel wire core, stranded, compacted class 2
Insulation	Polyvinyl chloride (PVC)
Sheath	Polyvinyl chloride (PVC)
Nominal voltage [kV]	0.6/1 (1.2)
Laying temperature min. [°C]	–5
Max. conductor temperature [°C]	70
Max. conductor temperature at short circuit [°C]	160
Ambient temperature fix installation (min) [°C]	–30

NYYBY-O 0.6/1 kV

RODENT PROTECTED

Part of the power supply system of the DSTW. They are intended for use in the DSTW track field. Areas of application include free routes, train stations, railway tunnels and building entries in GFK.

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/family/NYYBY-O_0,6-1KV

NYYBY-O 0.6/1 kV	
Type designation	NYYBY-O
Standard	DIN VDE 0271, DIN VDE 0276-603, LH DLST.038 DB NETZ AG, DIN EN 60228, DIN VDE 0293-308, DIN EN 50575, DIN EN 60332-1-1 / DIN EN 60332-1-2
Conductor	Bare copper, round, single wire, class 1 up to and including 16 mm² and round, stranded, compacted, class 2 from 25 mm²
CPR class	E_{ca}
Insulation	Polyvinyl chloride (PVC)
Armouring	Armouring tape, galvanised steel
Sheath	Polyvinyl chloride (PVC)
Nominal voltage [kV]	0.6/1 (1.2)
Laying temperature min. [°C]	–5
Max. conductor temperature [°C]	70
Max. conductor temperature at short circuit [°C]	160

N2X2YB2Y-O 0.6/1 kV

RODENT PROTECTED

Part of the power supply system of the DSTW. They are intended for use in the DSTW track field. Areas of application include free routes, train stations, railway tunnels and building entries in GFK.

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/family/N2X2YB2Y-O_0,6-1KV

N2X2YB2Y-O 0.6/1 kV	
Type designation	N2X2YB2Y-O
Standard	DIN VDE 0276-603, LH DLST.038 DB NETZ AG, DIN EN 60228, DIN VDE 0293-308, DIN EN 50575
Conductor	Bare copper, round, single wire, class 1 up to and including 16 mm² and round, stranded, compacted, class 2 from 25 mm²
CPR class	F_{ca}
Insulation	XLPE
Armouring	Armouring tape, galvanised steel
Sheath	Polyethylene (PE)
Nominal voltage [kV]	0.6/1 (1.2)
Laying temperature min. [°C]	–20
Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	160

PROTOLON GGSG 1.8/3 kV

For the power supply of tracks operated with direct current, for installation in dry, damp and wet rooms, outdoors, in pipes and ducts but not directly in earth. As feeding or connection cable for electrical railroads where difficult laying conditions, small bending radii or vibrations are expected. The cable fulfils the Euroclass E_{ca} acc. to CPR. The cable is suitable for all standardized muffles, sleeves, joints and other connection parts as well as for standardized vertical and horizontal mounting methods.

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/family/GGSG_1,8-3KV

PROTOLON GGSG 1.8/3 kV	
Certifications and Standards	Acc. to “System Requirements for Track Feeder Cables (1.8/3 kV)“ of DB Netz AG
Type designation	GGSG
Standard	DIN VDE 0250-813, DIN EN 60228 / IEC 60228, DIN EN 50363-1, DIN EN 50363-2-1
CPR class	E_{ca}
Conductor	Copper, plain, finely stranded class 5
Insulation	EPR
Screen	Bare copper, finely stranded class 5, 2nd insulation: Ethylene Propylene Rubber (EPR)
Sheath	Chlorinated polyethylene (CM/CPE)
Nominal voltage [kV]	1.8/3 (3.6)
Laying temperature min. [°C]	–25
Max. conductor temperature [°C]	90
Ambient temperature fix installation (min) [°C]	–40
Max. conductor temperature at short circuit [°C]	250

PROTOLON(H) GHXSGHXOE 1.8/3 kV

For the power supply of tracks operated with direct current, for installation in dry, damp and wet rooms, outdoors, in pipes and ducts but not directly in earth. As feeding or connection cable for electrical railroads where difficult laying conditions, small bending radii or vibrations are expected. The cable fulfils the Euroclass $B2_{ca}$ (s1a, d0, a1) acc. to CPR. The cable is suitable for all standardized muffles, sleeves, joints and other connection parts as well as for standardized vertical and horizontal mounting methods.

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/family/PROTOLON(H)_GHXSGHX-OE_1,8-3KV

PROTOLON(H) GHXSGHXOE 1.8/3 kV	
Certifications and Standards	Acc. to “System Requirements for Track Feeder Cables (1.8/3 kV)“ of DB Netz AG
Brand	PROTOLON(H)
Type designation	GHXSGHXOE
Standard	DIN VDE 0250-813, DIN EN 60228 / IEC 60228, DIN EN 50363-1, DIN EN 50363-2-1
CPR class	$B2_{ca}$ -s1a,d0,a1
Conductor	Copper, plain, finely stranded class 5
Insulation	EPR
Screen	Bare copper, finely stranded class 5, 2nd insulation: Ethylene Propylene Rubber (EPR)
Sheath	EVA rubber
Nominal voltage [kV]	1.8/3 (3.6)
Laying temperature min. [°C]	–25
Max. conductor temperature [°C]	90
Ambient temperature fix installation (min) [°C]	–40
Max. conductor temperature at short circuit [°C]	250

Intact drums secure fully functional cables.

A cable is a valuable product and it is normally transported on a cable drum. The battens on the drum seem thick enough to remain unbroken, but with a cable weighing more than four tons, it becomes very vulnerable. If the handling is done correctly, the drum will protect the cable from transportation damages.

If the drum is damaged, the cable can also be damaged. And it might not be discovered until after installation, when repairs can be extremely expensive. Scan the QR-code below and learn how damages can be avoided by correct drum handling.

Drum handling brochure
www.prysmian.de

The planet's pathways

PRYSMIAN

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