

Get tough!

Welding, hot batteries or similar – PRYSMIAN H01N2-D cables always get the job done.



Prysmian
Group

Linking
the Future

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".

Sezgin Islamoglu, Operations Director CEE, Prysmian Group

To make sure we can provide you with all the cables that you need, we make recurring investments in our manufacturing plants. By making sure 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



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Hard-wearing

Thanks to a cross-linked special compound in the outer sheath, PRYSMIAN H01N2-D can handle a whole lot of severe beating, liquids and heat.

Flexible

The compound in the sheath not only makes the cable very durable, the highly elastomeric material makes the cable extremely pliable, too.

Weather-proof

Operating from -40°C to $+85^{\circ}\text{C}$, in rain, snow or sun, this weather beater won't budge before you do.



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If you're in search for a cable not afraid of getting its hands dirty and always ready to take the heat, have a look at PRYSMIAN H01N2-D. This roughneck cable pushes the power forward to any type of gear working under hot conditions. May it be high mechanical stress, inside or outdoors, in rain, snow or sun – PRYSMIAN H01N2-D won't yield for anything.

PRYSMIAN H01N2-D CABLES

Hard-hitting work sometimes need extra elbow grease to reach the wished-for results. It might have to be done in areas with lots of heavy machinery, in small and cramped places, or in hot, or cold, environments. To make sure the gear is up for the task and fed with all the electricity it needs without any interruptions, an equally tough, or even tougher, cable is required.

PRYSMIAN H01N2-D is intended for use with hand-held electrodes at 100 V in dry, humid and moist rooms as well as outdoors, where the cables are subjected to high mechanical stresses. It can be used for welding robots, in shipyards, operated lines and spot welding. This cable works also perfect as battery cable or in battery storage systems. In other respects the specifications of DIN EN 50565-2 apply.

MAIN FEATURES

- ✓ Operating temperature from -40 °C to +85 °C
- ✓ Impact resistant
- ✓ Resistant to high temperatures, ozone, oils, greases and gas
- ✓ Highly flexible also at very low temperatures



TECHNICAL DATA



| PRYSMIAN H01N2-D 100/100 V | |
|---------------------------------------|--------------------------------------------------------------------------------------------|
| Global data | |
| Brand | PRYSMIAN |
| Type designation | H01N2-D |
| Standard | DIN EN 50525-2-81 |
| Design features | |
| Conductor | Bare copper, acc. to IEC 60228 class 6, multi-flexible (F) |
| Conductor shape | Round (R) |
| Outer sheath | Cross-linked elastomeric special compound: requirements in acc. with DIN EN 50363-2-2: EM5 |
| Outer sheath colour | Black |
| Electrical parameters | |
| Rated voltage | 100/100 V |
| Max. permissible operating voltage AC | 0.110/0.110 kV |
| Max. permissible operating voltage DC | 0.165/0.165 kV |
| AC test voltage | 1 kV |

| PRYSMIAN H01N2-D 100/100 V | |
|---------------------------------------------------|-----------------------------|
| Chemical parameters | |
| Flame propagation | DIN EN 60332-1-2 |
| Resistance to oil | DIN EN 60811-404 |
| Thermal parameters | |
| Max. operating temperature of the conductor | 85 °C |
| Max. short circuit temperature of the conductor | 250 °C |
| Ambient temperature for fix installation min. | -40 °C |
| Ambient temperature in fully flex. operation min. | -40 °C |
| Mechanical parameters | |
| Max. tensile load on the conductor | 15 N/mm ² |
| Bending radii min. | Acc. to DIN VDE 0298 part 3 |

| PRYSMIAN H01N2-D 100/100 V | | | | | | | |
|---------------------------------|-------------|-----------------------------|------------------------|----------------------------------------------------------------------------------|----------------|----------------|----------------|
| Number of cores x cross section | Part number | Outer diameter (approx.) mm | Weight (approx.) kg/km | Current rating for single cycle operation over a maximum period of 5 minutes (A) | | | |
| | | | | 100% duty cycle | 85% duty cycle | 60% duty cycle | 35% duty cycle |
| 1x10 | 20364553 | 8.54 | 144 | 100 | 103 | 108 | 122 |
| 1x16 | 20364554 | 9.59 | 204 | 135 | 145 | 175 | 230 |
| 1x25 | 20364555 | 10.57 | 283 | 180 | 195 | 230 | 300 |
| 1x35 | 20364556 | 11.72 | 378 | 225 | 245 | 290 | 375 |
| 1x50 | 20364557 | 13.52 | 529 | 285 | 305 | 365 | 480 |
| 1x70 | 20364560 | 16.21 | 742 | 355 | 385 | 460 | 600 |
| 1x95 | 20364559 | 17.37 | 944 | 430 | 470 | 560 | 730 |
| 1x120 | 20364558 | 19.57 | 1210 | 500 | 540 | 650 | 850 |

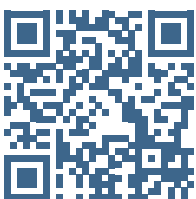
| PRYSMIAN H01N2-D 100/100 V | | | | | | | |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|
| Ambient temperature | 25 °C | 30 °C | 35 °C | 40 °C | 45 °C | 50 °C | 55 °C |
| De-rating factor | 1.0 | 0.96 | 0.91 | 0.87 | 0.82 | 0.76 | 0.71 |

Please check our homepage: www.prysmiangroup.de for more details.

PRYSMIAN GROUP

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