

## RH5Z1-OL 1x500 RM XLPE 12/20kV



### Description

Medium voltage cables are electrical cables designed to transmit electrical power at voltage levels ranging from 1kV up to 72kV. These cables are commonly used in industrial and commercial applications to connect power sources such as transformers, generators, and substations to loads such as motors, lighting systems, and other equipment. These cables consist of one or more conductors made of copper or aluminum, surrounded by layers of insulation and protective sheathing. The insulation material used can vary depending on the specific application and environmental factors such as temperature, moisture, and chemical exposure. Some common insulation materials include cross-linked polyethylene (XLPE), ethylene propylene rubber (EPR), etc.

Medium voltage cables can be designed for both underground and overhead installations, and may be armored or unarmored depending on the application requirements. Armored cables are typically used in applications where mechanical protection is required, while unarmored cables are used in less demanding applications.

Overall, medium voltage cables are critical components of modern electrical systems, providing a safe and reliable means of transmitting electrical power over long distances.

### Standards

IEC 60502-2  
VDE 0276 / HD620  
IEC/EN 602228

### Construction

Stranded class 2, RM conductor  
Inner semi conductive layer  
XLPE insulation  
Outer semi conductive layer  
Semi conductive swellable tape  
Aluminum tape  
DMZ1 outer sheath

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**Specifications**

Cable Type	Single Core
Cable Overall Diameter	36.7
Cable Weight	2470
Conductor Material	Aluminium
Conductor Cross-Section	1x500
Conductor Class	CL-2
Conductor Type	RM
Insulation Material	XLPE
Insulation Thickness	5.5
Outersheath Material	DMZ1
Rated Voltage (Uo/U)	12/20
Max. Permissible Installation Temperature	-20 >> +70
Operating Temperature	-40 >> +90
Short Circuit Temperature	+250
Minimum Bending Radius (Installing)	15xD
Minimum Bending Radius (Operating)	13xD
Packing	Wooden Drum, Plywood Drum, Coil, Rolls
Delivery Lengths	To be confirmed by offer
Delivery Length Tolerance	±5%

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