

HXRG

acc. to VG 95218 part 101

Halogenfree, crosslinked



Approval/Certificates

For these RHEYHALON® Navy cables following certificates/ approvals are available:

- BWB Certificate of Approval according to VG 95211
- VDE Certificate of conformity with manufacturing surveillance
- Approval Certificate from „Germanischer Lloyd“
- Approved QPL manufacturer according to VG 95212-22
- Certified manufacturer according to ISO 9001

Applications

RHEYHALON® HF-Navy cables are determined for fixed installation in electrical power systems below and above deck, preferably on ships of the German Navy. These cables are not intended for permanent installation in or under water. RHEYHALON® Navy cables fulfill all requirements of BV3400 („Specification for Construction of German Navy vessels“).

Max core temperature: 85°C

Standards

VG 95218 part 101

Design

1. Conductor

Copper conductor, stranded class 2

2. Dielectrical compound

Insulation of polyethylene

3. Overall screen

Copper wire braided screen, separator tape

4. Outer Sheath

Outer sheath of crosslinked elastomer compound, colour black

Marking

Colour of outer sheath black, marked by printing in contrast-colour

Sample:

I NEXANS I D 1427 VDE-Reg.-Nr. 7779 RHEYHALON-Series 911 VG 95218 T101 A002 HXRG 213

HXRG acc. to VG 95218 part 101

Type	Nomenclature acc. VG 95218 part 101	Conductor	Dielectric material mm	Diameter of dielectric nominal	Screen mm	Outer diameter nominal kg/km	Cable-Weight max.
HX RG 11	F001	tinned copper, stranded	PE	7.3	bare copper	10.3	150
HX RG 58	B001	tinned copper, stranded	PE	2.9	tinned copper	5.0	37
HX RG 59	D001	bare copper-clad steel singlewire	PE	3.7	bare copper	6.1	54
HX RG 213	A002	bare copper, stranded	PE	7.3	bare copper	10.3	160
HX RG 214	C002	silver plated copper, stranded	PE	7.3	double silver plated copper screen	10.6	185
HX RG 216	E001	tinned copper, stranded	PE	7.3	double bare copper screen	10.8	176
HX RG 218	A001	bare copper singlewire	PE	17.3	bare copper	22.1	720

Type	Conductor resistance at 20 °C max. Ω/km	Insulation resistance GΩ · km	Capacitance (nominal) pF/m	Characteristic impedance Ω	Velocity ratio (nominal)	Attenuation ca. db/100 m at 200 MHz
HXRG 11	22	10	68	75 ± 3	0.66	12
HXRG 58	41	10	100	50 ± 2	0.66	25
HXRG 59	160	10	68	75 ± 2	0.66	20
HXRG 213	5.8	10	100	50 ± 2	0.66	10
HXRG 214	5.8	10	100	50 ± 2	0.66	11
HXRG 216	22	10	68	75 ± 3	0.66	11
HXRG 218	1.03	10	100	50 ± 2	0.66	6

Other

The electrical characteristics and the dimensions fulfill the requirements of MIL-C-17 (connector-compatibility).
The outer sheath is acc. to VG 95218 parts 60-66 (elongation at break ≥ 125 %).

Operating temperature at conductor	+ 85 °C
Lowest permissible temperature for installation	- 10 °C
Minimum bending radius	fixed installation
	repeatedly bending
	$r = 5 \times D$
	$r = 20 \times D$