

HEPR mining cable

TORSIONFLEX® POWER-VS

3GSEHBH 6/10 kV



IEC 60502-2

Special armoured mining cable
with HEPR insulation



CONSTRUCTION

Conductors	Annealed copper circular stranded compacted class 2 acc. to IEC 60228
Inner screen	Semi-conductive compound
Insulation	Ethylene-propylene rubber type HEPR acc. to IEC 60502-2
Outer screen	Semi-conductive compound
Individual screen	Copper tape
Inner sheath	Special flame retardant LSOH type ST ₈ acc. to IEC 60502-2
Armour	Double steel tapes.
Outer sheath	Special LSOH type ST ₈ acc. to IEC 60502-2
Colour of outer sheath	Black or Red

CHARACTERISTIC

Maximum conductor operating temperature:	+90°C
Lowest ambient temperature for fixed installation:	-30°C
Lowest installation temperature:	-5°C
Maximum short-circuit conductor temperature:	+ 250°C
Minimum bending radius:	12 x D multi-core cables, D – overall diameter
Max. permissible tensile stress with cable grip for Cu-conductor:	50 N/mm ²
Test voltage:	21kV AC 49-61Hz, 5min

FIRE PERFORMANCE

▪ Flame retardant:	IEC 60332-1-2, IEC 60332-3-24
▪ Smoke density:	IEC 61034-2: light transmittance values > 70%
▪ Gases evolved during combustion:	IEC 60754-1, IEC 60754-2, DIN EN 50267-2-2: pH ≥ 4,3; conductivity ≤ 100 μS/cm

APPLICATIONS

HEPR insulated and PVC sheathed mining cables for the supply of electrical energy.

Standard length cable packing	1000m on drums. Other forms of packing and delivery are available on request
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Number and cross-sectional area of conductor	Nominal thickness of insulation	Nominal thickness of sheath	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C
n x mm ²	mm	mm	mm	kg/km	Ω/km
3x70	3,4	2,7	57,4	6606	0,268
3x150	3,4	3,1	69,8	10726	0,124
3x240	3,4	3,3	80,6	13777	0,0754
3x300	3,4	3,4	86	16120	0,0601
3x400	3,4	3,7	92,7	19370	0,0470



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