



CABLE STRUCTURE

Conductors	Circular Stranded Plain Annealed Copper Conductor (class 2 acc. to IEC 60228)
Insulation	3GI3 type EPR Compound
Electrical Field Control	Extruded inner and outer rubber semiconductive layer
Core Identification	Natural coloring with black semiconductive layer
Screen	Copper tapes applied over each main core
Lay Up	3- Screened Cores will be laid up in concentrically
Bedding	PVC Filler
Armour	Galvanized Steel Wire Braid (GSWB) Min %90
Outer Sheath	Special PVC compound, flame retardant
Color	Red

PRODUCTION AND TEST STANDARDS

Construction	DIN VDE 0250-605 & IEC 60502-2
General Requirements	DIN VDE 0250-1
Guide to Use	DIN VDE 0298-3
Electrical Tests	DIN VDE 0472-501, 503, 508
Non-Electrical Tests	DIN VDE 0472-401, 402, 602, 303, 615
Under Fire Conditions Test	DIN VDE 0472-803, 804
Flame Retardant	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1

OPERATING CHARACTERISTICS

Rated Voltage	18/30 kV
AC Test Voltage	48 kV
Max. Permissible Operating Voltage AC	20,8/36 kV
Max. Permissible Operating Voltage DC	27/54 kV
Min Bending Radius	Acc. to DIN VDE 0298 part 3
Current Carrying Capacity	According to DIN VDE 0298, Part 4
Max Short Circuit Temperature	250°
Max Conductor Temperature	90°C
Working Temperature	
Fixed	-25°C .. +80°C
Mobile	+5°C .. +80°C
Max. Tensile Load of cable	15 N/mm ²
Max. Torsion	25°/m

Application

These cables are used for the connection of mobile operating equipments, in mines and underground excavations with hazardous environments, in stationary operation, e.g. high-voltage transformers in mining and tunnelling. It can be used also for powering main pannels and switchboards in tunnelling applications



Cross Section (mm ²)	Overall Diameter Min - Max (mm)	Max. DC Resistance (20°C) (Ω/km)	Approximate weight (kg / km)
3 x 25 /16	65.1 - 72.0	0,727	6860
3 x 35 /16	68.0 - 75.1	0,524	7640
3 x 50 /16	70.8 - 78.3	0,387	8520
3 x 70 /16	74.5 - 82.4	0,268	9760
3 x 95 /16	79.0 - 87.2	0,193	11280
3 x 120 /16	82.2 - 90.9	0,153	12600