



CABLE STRUCTURE

CONDUCTOR & INSULATION

Power Cores

Conductor	Tinned copper conductor DIN VDE 0295 class 5.
Insulation	Based on 3GI3 - EPR rubber and semi conductive rubber compound.

CONTROL CORES + MONITORING PE CORE(S)

Conductor	Tinned copper conductor DIN VDE 0295 class 5.
Insulation	3GI3 type EPR compound and semi conductive rubber compound.

Lay Up

Three power cores laid-up, with double concentric control cores and monitoring core in the outer interstices. If there are 3 control cores, the monitoring core is concentrically wrapped over insulation of control cores

Inner Sheath

GM1b type EPR compound

Screen / Armour

Flexible - pliable armour in helix of tinned copper and galvanised steel wires

Outer Sheath

Heavy duty elastomer 5GM5 type rubber compound. Yellow or Red.

PRODUCTION AND TEST STANDARDS

Construction	DIN VDE 0250-812
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 Tests	DIN VDE 0472-803, 804
Flame Retardant	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1
Oil Resistant	HD/EN/IEC 60811-2-1, DIN VDE 0473-811-2-1

OPERATING CHARACTERISTICS

Rated Voltage	0,6/1 kV
Max. Permissible Operating Voltage AC	0,7/1,2 kV
Max. Permissible Operating Voltage DC	0,9/1,8 kV
AC Test Voltage	3 kV
AC Test Voltage (For Control Cores)	2 kV
Min Bending Radius	Acc. to DIN VDE 0298 part 3
Min. Distance With S-Type Directional Changes	20 x D
Current Carrying Capacity	According to DIN VDE 0298, Part 4
Working Temperature	
Fixed	-40°C _ +80°C
Mobile	-25°C _ +80°C
Max. Tensile Load of cable	15 N/mm ²



Ozone Resistant



Cold Resistant



Tear Resistant



UV Resistant



Weather Resistant



Moisture Resistant



Ex-Proof

Application

It is used for connection of mobile machines with very high mechanical load, especially in mines for coal cutting and loading machines as well as for supplying appliances and devices and auxiliary electrical circuits. Concentric phase monitoring screen and overall concentric earth conductor facilitate in connection with a suitable monitoring equipment monitoring of the cable from standpoint of insulation faults and damages that are caused by external effects.

Cross Section (mm ²)	Overall Diameter Min - Max (mm)	Approximate weight (kg / km)
3 x 16/16 KON + (2x1,5 St+1,5 ÜL)	35.0 - 38.0	2150
3 x 25/16 KON + (2x1,5 St+1,5 ÜL)	41.0 - 46.0	3000
3 x 35/16 KON + (2x1,5 St+1,5 ÜL)	42.0 - 47.0	3400
3 x 70/35 KON + (2x1,5 St+1,5 ÜL)	46.0 - 51.0	4300
3 x 70/35 KON + (2x1,5 St+1,5 ÜL)	52.0 - 56.0	5600
3 x 95/50 KON + (2x1,5 St+1,5 ÜL)	58.0 - 62.0	7100
3 x 25/16 KON + 3 x (1,5 ST KON/1,5 ÜL KON)	42.0 - 46.0	3130
3 x 35/16 KON + 3 x (1,5 ST KON/1,5 ÜL KON)	43.0 - 47.0	3610
3 x 50/35 KON + 3 x (1,5 ST KON/1,5 ÜL KON)	49.0 - 53.0	4580
3 x 70/35 KON + 3 x (1,5 ST KON/1,5 ÜL KON)	52.0 - 56.0	5920
3 x 95/50 KON + 3 x (1,5 ST KON/1,5 ÜL KON)	60.0 - 64.0	7400