



TEBAOFLEX CABLE

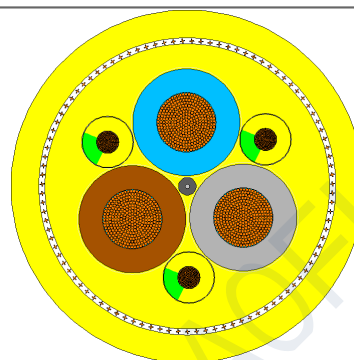
DATA SHEET

Mining&Industrial cable

NSHCGEÖU KON+ST+UL

0.6/1 kV tunnel cable

Screened flexible rubber cable for general use, with monitoring and earth conductor arrangements for insulation fault and damage monitoring.



APPLICATION

Used for connection of mobile machines with very high mechanical load, especially in mines for coal cutting and loading machines, and for supplying appliances, devices and auxiliary electrical circuits. Concentric phase monitoring screen and overall concentric earth conductor facilitate cable monitoring with suitable equipment.

CONSTRUCTION

Component	Description
Power core conductor	Tinned copper conductor, DIN VDE 0295 class 5
Power core insulation	3GI3 EPR rubber and semi-rubber compound
Control and monitoring cores	Tinned copper conductor, DIN VDE 0295 class 5
Control core insulation	3GI3 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; monitoring core concentrically wrapped over control core insulation when 3 control cores are present
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

STANDARDS

Item	Standard
Construction	DIN VDE 0250-812
General requirements	DIN VDE 0250-1
Guide 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 condition 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

TECHNICAL DATA

TECHNICAL CHARACTERISTICS

Property	Value
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
Minimum bending radius	According to DIN VDE 0298 part 3
Minimum distance with S-type directional changes	20 x D
Current carrying capacities	According to DIN VDE 0298-4
Working temperature, fixed	-40 deg C to +90 deg C
Working temperature, mobile	-25 deg C to +90 deg C
Max. tensile load of cable	15 N/mm ²

DIMENSIONS AND WEIGHT

Cross-section	Overall diameter min-max (mm)	Approx. weight (kg/km)
3 x 16/16 KON + (2 x 1.5 ST + 1.5 UL)	35-38	2150
3 x 25/16 KON + (2 x 1.5 ST + 1.5 UL)	41-46	3000
3 x 35/16 KON + (2 x 1.5 ST + 1.5 UL)	42-47	3400
3 x 70/35 KON + (2 x 1.5 ST + 1.5 UL)	46-51	4300
3 x 70/35 KON + (2 x 1.5 ST + 1.5 UL)	52-56	5600
3 x 95/50 KON + (2 x 1.5 ST + 1.5 UL)	58-62	7100
3 x 25/16 KON + 3 x (1.5 ST KON / 1.5 UL KON)	42-46	3130
3 x 35/16 KON + 3 x (1.5 ST KON / 1.5 UL KON)	43-47	3610
3 x 50/35 KON + 3 x (1.5 ST KON / 1.5 UL KON)	49-53	4580
3 x 70/35 KON + 3 x (1.5 ST KON / 1.5 UL KON)	52-56	5920
3 x 95/50 KON + 3 x (1.5 ST KON / 1.5 UL KON)	60-64	7400

CERTIFICATIONS



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