



Caledonian

Tunnel Cables

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Tunnel Cable

NSHCGEöU KON+ST+UL 3×70/35 KON + (2×1.5 St+1.5 ÜL)



APPLICATIONS

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 auxiliary 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.

STANDARDS

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

Flame Retardant: VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1

Under Fire Condition Tests: DIN VDE 0472-803, 804

Oil Resistant: HD/EN/IEC 60811-2-1, DIN VDE 0473-811-2-1

VOLTAGE RATING

0.6/1kV

CABLE CONSTRUCTION

Power Cores:

Conductors: Tinned copper conductor DIN VDE 0295 class 5.

Insulation: Based on 3GI3-EPR rubber and semi rubber compound.

Control Cores+Monitoring Pe Core(S):

Conductors: 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 the protective earth conductors split into three 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: Flexible- pliable armour in helix of tinned copper and galvanised steel wires.



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Outer Sheath: Heavy-duty elastomer 5GM5 type rubber compound Yellow or Red.

PHYSICAL AND THERMAL PROPERTIES

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. 011otance with S-Type Directional Changes:20xD

Current Carrying Capacities:DIN VDE 0298-4

Working Temperature:

Fixed:-40°C- +80°C

Mobile:-25°C- +80°C

Max.Tensile Load of Cable:15N/mm²

DIMENSION AND PARAMETERS

No. of Cores × Cross-sectional Area	Overall Diameter (min.)	Overall Diameter (max.)	Approx. Weight
No.×mm ²	mm	mm	kg/km
3×70/35 KON + (2x1.5 St+1.5 ÜL)	52	56	5600