



# Caledonian

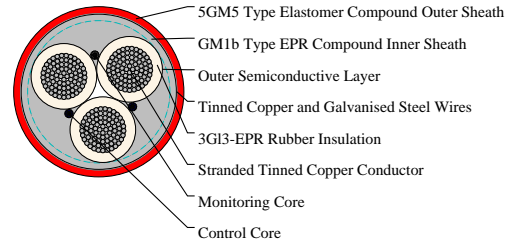
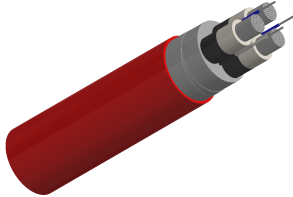
Tunnel Cables

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## Tunnel Cable

NTSKCGEWöU 3x240+3x(1.5 ST KON+16/3 KON)



## APPLICATIONS

For the connection of mobile electrical equipment in mines and tunnels. Suitable also for coal cutting machines, particularly for extreme bending loads inside of steel or plastic track chains.

## STANDARDS

Construction: DIN VDE 0250-813

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

1.8/3 KV

## 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.

Cradle Separator:A shaped section of elastomeric material. -semi conductive, with control wire in the center. designed to support the core assembly. fill the center interstice and provide a specified separation between individual power cores.

Electrical Field Control:Inner and Outer semiconductive layer of semiconductive rubber.

Lay Up:Three main conductors laid-up with three(control cores & PE conductors) in interstice over a cradle separator.

Inner Sheath: GM1b Type EPR compound.



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Screen / Armour: Flexible- pliable armour in helix of tinned copper and galvanised steel wires.

Outer Sheath: 5GM5 Type elastomer compound. Red.

## COLOUR CODE

Core Identification:

Power cores: naturally colored

Control cores: blue colored

## PHYSICAL AND THERMAL PROPERTIES

Rated Voltage: 1.8/3 KV

AC Test Voltage: 6 KV

Max. Permissible Operating Voltage AC: 2.1/3.6 KV

Max. Permissible Operating Voltage DC: 2.7/5.4 KV

Min Bending Radius: DIN VDE 0298-3

Current Carrying Capacities: DIN VDE 0298-4

Working Temperature:

Fixed: -40°C - +80°C

Mobile: -25°C - +80°C

## DIMENSION AND PARAMETERS

Nominal Cross-sectional Area	Overall Diameter (min.)	Overall Diameter (max.)	Approx. Weight	Conductor Resistance at 20 °C
mm <sup>2</sup>	mm	mm	kg/km	Ω/km
3x240+3x(1.5 ST KON+16/3 KON)	84.1	89.4	15860	0.0817