



# Caledonian

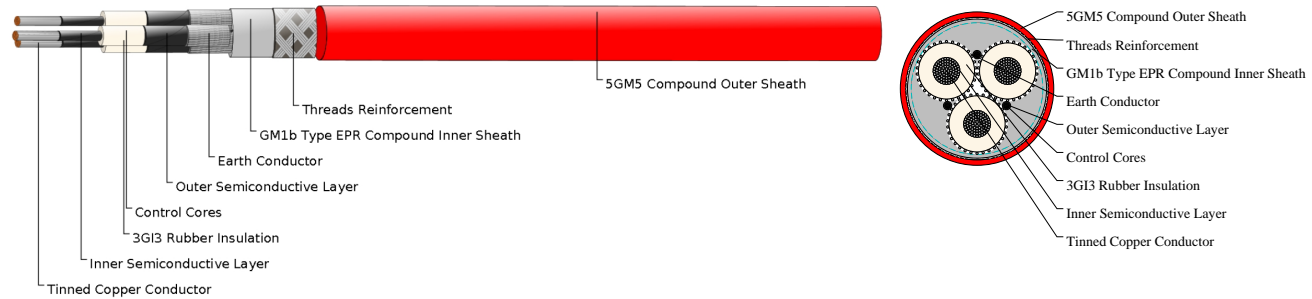
Tunnel Cables

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## Tunnel Cable

NTSCGEWöU 3x120+3x70/3



## APPLICATIONS

For the connection of electrical equipment large material handling machines such as excavators, cranes, dumpers in mining and tunneling applications. The flexible cable design allows for movement of the equipment during operation.

## 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

18/30kV

## CABLE CONSTRUCTION

Conductors: Electrolytic, stranded, tinned copper wire DIN VDE 0295 Class 5.

Insulation: 3GI3 type EPR compound

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

Protective-Earth Conductor: Tinned Copper conductor with semiconductive layer.

Lay Up: Three main conductors laid-up with three control cores in the outer interstice.

Inner Sheath: GM1b Type EPR Compound.

Reinforcement: Embedded braid made of anti torsion synthetic threads.

Outer Sheath: 5GM5 Type elastomer compound. Red.

## PHYSICAL AND THERMAL PROPERTIES

Rated Voltage: 18/30 KV

AC Test Voltage: 43 KV



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Max. Permissible Operating Voltage AC: 20.8/36 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

Max. Tensile Load of Cable: 15N/mm<sup>2</sup>

Max. Torsion: 25°/m

Trawl Speed For Tunnelling App: Max. 30 m/min

Minimum Distance For Change Of Direction: 20×D

## DIMENSION AND PARAMETERS

Nominal Cross-sectional Area	Overall Diameter (min.)	Overall Diameter (max.)	Approx. Weight
mm <sup>2</sup>	mm	mm	kg/km
3x120+3x70/3	85.3	94.2	12260