

Caledonian

Tunnel Cables www.caledonian-cables.com

marketing@caledonian-cables.com

Tunnel Cable

(N)TSCGEWöU-TBM 3x120+3x16/3E+3x2.5ST+6ÜLKON



APPLICATIONS

The cables are suitable for reeling power supply cables for TBM's machines and in underground mines for tunnel constructions.

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 VDE0473-811-2-1

VOLTAGE RATING

6/10kV

CABLE CONSTRUCTION

Conductors: Flexible Tinned Electrolytic copper conductor DIN VDE 0295 Class 5.

Insulation: 3GI3 type EPR compound

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

Control core: Tinned Copper conductor with semiconductive layer.

Protective-Earth Conductor: Tinned Copper/ Textile braiding combinated cores laying concentric around each power core.

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

Inner Sheath: GM1b Type EPR Compound.

Screen: Overall concentric lay of copper wire spinning.

Outer Sheath: 5GM5 Type elastomer compound. Red.

COLOUR CODE



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Core Identification: Main Cores: Natural coloring with black semiconductive rubber. Control cores: Black

PHYSICAL AND THERMAL PROPERTIES

Rated Voltage:6/10 KV AC Test Voltage:17 KV Max.Permissible Operating Voltage AC:6.9/12 KV Max.Permissible Operating Voltage DC:9/18 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/mm² Max.Torsion:25°/m Trawl Speed For Tunnelling App:Max.30 m/min Minimum Distarce For Change Of Direction:20×D

DIMENSION AND PARAMETERS

Nominal Cross- sectional Area	Overall Diameter (min.)	Overall Diameter (max.)	Approx. Weight
mm²	mm	mm	kg/km
3x120+3x16/3E +3x2.5ST+6ÜLKON	65.1	69.3	7840