

Caledonian

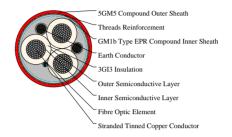
Tunnel Cables www.caledonian-cables.com

marketing@caledonian-cables.com

Tunnel Cable

(N)TSCGEWöU FO(LWL) 3x240+2x120/2+FO





APPLICATIONS

For the connection of electrical equipment large material handling machines such as excavators, cranes, dumpers in mining and tunneling applications in combination of power and data transmission. The flexible cable design allows for movement of the equipment during operation. Suitable also as flex MV reeling cable and also for festoon systems.

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

14/25kV

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.

Optical Fiber: Fibre core diameter of fiber 9µm, 625µm or 50µm; Diameter over cladding 125µm; diameter over coating 250µm; designs up to 24 fibers available.

Fiber coading: Color coding of the fibers and buffering tube for identification of the fiber type.

Fiber covering: Hollow core with filling compound, basic material ETFE.

Arrangement of Fiber cores: Six cores in one layer and specially laid-up around the central support element. Lay Up: Three main conductors laid-up with two control cores and fiber optic element in the outer interstice. Inner Sheath: GM1b Type EPR compound.



Caledonian

Tunnel Cables www.caledonian-cables.com

marketing@caledonian-cables.com

Reinforcement: Embedded braid made of anti torsion synthetic threads. Outer Sheath: 5GM5 Type elastomer compound. Red.

PHYSICAL AND THERMAL PROPERTIES

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	Permissible Tensile Force (max.)	Conductor Resistance at 20 °C
mm²	mm	mm	kg/km	Ν	Ω/km
8x240+2x120/2+FC	89.2	94.2	15130	14400	0.08