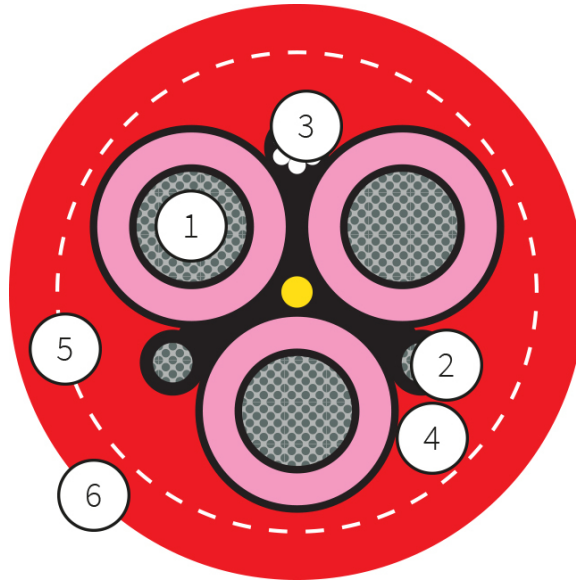




FEICHUN SPECIAL CABLES

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VDE 0250 Part 813 Type (SMK+HS) (N) TSKCGEWOEU Three-in-one Feeder Cable



Technical Specifications

1. General Information

Type (SMK+HS) (N) TSKCGEWOEU Feeder Cable is designed for industrial applications that require high durability, flexibility, and excellent electrical performance. This feeder cable is suitable for 6-10 kV voltage applications, specifically in environments such as hoppers, where mechanical stress and environmental challenges are prevalent.

Number of Conductors: 6

Conductor Material: Copper

Conductor Cross-Section:

3 × 120 mm² (power cores)

1 × 70 mm² (auxiliary core)

2 × 2.5 mm² (control cores)

12G62.5 (LWL) multimode optical fiber

Cable Color: Red

Cable Diameter: 65.6 - 68.6 mm



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Cable Construction:

Conductors

Flexible stranded copper conductors, class 5, designed according to DIN VDE 0295. These stranded copper conductors offer excellent conductivity and flexibility, making them ideal for industrial use where movement or mechanical stress is expected.

Inner Conductor Layer

Made from a special rubber compound that is conductive to ensure optimal electrical performance. This layer enhances the cable's durability and ensures it can withstand harsh conditions, such as mechanical pressure or frequent bending.

Insulation

Rubber Type 3GI3, a high-quality rubber insulation material that complies with VDE standards. This provides excellent electrical insulation, ensuring safe operation at high voltages up to 10 kV. The insulation material also offers resistance to heat and mechanical wear.

Outer Conductor Layer

A special rubber compound, conductive and easy to strip, allows for simple and quick installation or maintenance without damaging the internal components of the cable.

Pilot Cores (Optional)

These pilot cores consist of a tinned copper conductor insulated with EPR (Ethylene Propylene Rubber). The pilot cores provide additional communication or control functionality within the cable.

Earth Conductor

A spiral of tinned copper wires forms the earth conductor, offering excellent grounding capabilities. This ensures the cable maintains electrical safety standards in the event of short circuits or fault conditions.



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Inner Sheath

The inner sheath is composed of rubber type GM1b, which protects the inner components of the cable while also providing flexibility and durability in mechanically challenging environments.

Monitoring Shield/Armour

The monitoring shield is made of either a braided armour of combined copper-steel wires or a wrap of copper and steel wires, with a copper tape applied in the opposite direction for reinforcement. This provides an additional layer of mechanical protection and ensures the cable is resistant to external impact, abrasion, or chemical exposure.

Outer Sheath

The outer sheath is made from rubber type 5GM5, a high-strength rubber compound that offers excellent protection against environmental factors such as moisture, UV radiation, and chemicals. This robust outer sheath ensures the cable performs reliably in harsh industrial settings.

Electrical Properties

Rated Voltage: 6-10 kV

The Type (SMK+HS) (N) TSKCGEWOEU cable is designed to handle medium voltage applications up to 10 kV, ensuring safe and efficient power distribution in industrial environments.

Insulation Resistance:

The cable's insulation system, composed of high-quality rubber materials such as 3GI3 and GM1b, ensures optimal performance under electrical stress, with minimum leakage current and excellent dielectric strength.

Standards Compliance

This cable is manufactured in accordance with VDE 0250 Part 813, ensuring it meets all necessary electrical, mechanical, and environmental standards. The cable's construction and materials have been selected to comply with stringent safety and performance requirements, guaranteeing reliability in demanding industrial applications.