Feichun Mine Cable





Quality Inspection Report

Product Name: Type (N)SHTÖU – FO (LWL) Corrosion and Oil Resistant Cable

Specifications: $3 \times 150 + 2 \times 70 / 2 + FO$

Standard: **(VDE 0250 Part 814)**Order No: **FCHZY2024072303**

Date: 28-07-2024

4 6 11 6:			
1. Cable Structure and Dimensions			
Parameter	Specification	Measured Value	Status
Conductor Cross-Sectional Area	3 x 150 mm ² + 2 x 70 mm ² / 2	3 x 150 mm ² + 2 x 70 mm ² / 2	Pass
Insulation Thickness	As per standard (VDE 0250)	Meets specification	Pass
Sheath Cross-Sectional Area	As per standard (VDE 0250)	Meets specification	Pass
2. Electrical Characteristics			
Test Parameter	Standard Value	Measured Value	Status
20°C Max D.C. Resistance (Conductor)	≤ 0.124 Ω/km (150 mm²)	0.120 Ω/km	Pass
20°C Max D.C. Resistance (Conductor)	≤ 0.268 Ω/km (70 mm²)	0.265 Ω/km	Pass
Insulation Resistance	≥ 5 MΩ/km	6.2 MΩ/km	Pass
Voltage Test (Core to Core)	4 kV AC, 5 min	No breakdown	Pass
3. Mechanical Characteristics			i.
Test Parameter	Standard Requirement	Measured Value	Status
Tensile Strength of Insulation	≥ 12.5 MPa	13.0 MPa	Pass
Elongation at Break (Insulation)	≥ 200%	225%	Pass
Tensile Strength of Outer Sheath	≥ 15 MPa	15.5 MPa	Pass
Elongation at Break (Outer Sheath)	≥ 300%	320%	Pass
Impact Resistance	As per standard (VDE 0250)	No cracks	Pass
Abrasion Resistance	As per standard (VDE 0250)	Meets requirement	Pass

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4. Oil and Corrosion Resistance			
Test Parameter	Standard Requirement	Result	Status
Oil Resistance Test (24 hr, 100°C)	No swelling, softening or cracking	No abnormalities	Pass
Corrosion Resistance	No chemical degradation or discoloration	No corrosion	Pass
5. Additional Checks			植
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Test Item	Observation		Status
Cable Length	500 meters		Rass
Outer Sheath Intact & Undamaged	No visible damage or tears		Pass
Optical Fiber Functionality (FO)	Meets transmission requirements		Pass
Marking and Labeling	Clear and legible		Pass

The Type (N)SHTÖU - FO (LWL) corrosion and oil resistant cable (Order No. FCHZY2024072303) complies with all relevant specifications as per VDE 0250 Part 814.

The cable has passed all electrical, mechanical, and oil/corrosion resistance tests, and meets the requirements for conductor resistance, insulation integrity, and sheathdurability.

Inspection Status: Pass

Inspector's Name:

Date:2024-07-28

Inspector's Signature: