FEICHUN CABLE

TECHNICAL SPECIFICATION SHEET

Cable EpN 64 3×95/50 mm²

Manufactured in accordance with JUS Standard SRPS N.C5.364

GENERAL SPECIFICATIONS

Cable Type:	EpN 64
Configuration:	3×95/50 mm²
Nominal Voltage (U_0/U):	3.6/6 kV
Test Voltage:	11 kV
Standard:	SRPS N.C5.364
Cable Classification:	Flexible Medium Voltage Mining Cable
Sheath Color:	Red
Fire Rating:	Flame Retardant

CONSTRUCTION DETAILS

Conductor:	Tinned fine-stranded copper wire, Class 5 flexibility
Semi-conductive Layer:	Rubber compound/tape application
Insulation:	Ethylene Propylene Rubber (EPR) based compound
Inner Sheath:	Natural/synthetic rubber compound
Protective Conductor:	Tinned copper wire construction
Separation Sheath:	EPR rubber based compound
Control Conductor:	Tinned copper wire construction

Outer Sheath:	Polychloroprene rubber, oil and abrasion resistant, flame retardant (Red)

CONSTRUCTION DATA

Configuration (Power/Protective/Control) [mm²]	Copper Content [kg/km]	Cable Diameter [mm]	Cable Mass [kg/km]
3×16/10/6	799	55	2,900
3×25/16/6	1,154	57	3,330
3×35/16/6	1,538	62	4,260
3×50/25/6	2,066	68	4,718
3×95/50/6	**3,250***	73*	**6,940***

Legend:
- q = Nominal cross-section of power conductor
- q_1 = Nominal cross-section of protective conductor
- q_2 = Nominal cross-section of control conductor
- (*) Values estimated based on construction parameters

OPERATING PARAMETERS

Conductor Temperature Limits

Maximum Operating:	+90°C
Short Circuit (max 5s):	+250°C

Ambient Temperature Limits

Mobile Installation:	-25°C to +40°C
Fixed Installation:	-30°C to +40°C

Minimum Bending Radius:	15D (where D = cable diameter)

APPLICATIONS

Primary Application: This flexible rubber-sheathed cable is specifically engineered for underground mining operations in environments with elevated fire, gas, and coal dust explosion risks, particularly in methane-prone mining installations.

Specific Uses:

- High voltage connections to mobile mining transformers
- Underground pit electrical distribution systems
- Mining equipment power supply in hazardous atmospheres
- Temporary and permanent electrical installations in mining operations

Environmental Suitability: Designed for harsh underground conditions with resistance to oil, mechanical abrasion, flame propagation, and chemical exposure typical in mining environments.

Important Safety Notice: This cable must be installed and operated in accordance with local mining safety regulations and electrical codes. Regular inspection and maintenance are required for safe operation in mining environments.

COMPLIANCE & STANDARDS

Manufacturing Standard:	SRPS N.C5.364
Testing Standard:	JUS Standard Compliance
Safety Classification:	Mining Cable for Hazardous Locations
Quality Assurance:	Factory tested to specified parameters