FEICHUN CABLE

TECHNICAL SPECIFICATION SHEET

Cable EpN 53 Series - Low Voltage Mining Cables

Manufactured in accordance with Standard SRPS N.C5.353

PRODUCT CONFIGURATIONS

- **Cable EpN 53 3×95/50 mm², 0.6/1 kV**
- **Cable EpN 53 3×25/16 mm², 0.6/1 kV**
- **Cable EpN 53 3×35/16 mm², 0.6/1 kV**

GENERAL SPECIFICATIONS

Nominal Voltage	Test Voltage	Cable Type
U_0/U: 0.6/1 kV	2.5 kV	EpN 53

Standard:	SRPS N.C5.353
Cable Classification:	Flexible Low Voltage Mining Cable
Conductor Class:	Class 5 (Flexible)
Fire Rating:	Flame Retardant
Power Cable Sheath Color:	Yellow
Control Cable Sheath Color:	Grey
Oil Resistance:	Oil and Abrasion Resistant
Technical Designation:	NSSHöu .../3E EpN 53

CONSTRUCTION DETAILS

Conductor:	Flexible copper conductor, Class 5 stranding
Insulation:	Ethylene Propylene Rubber (EPR) based compound
Protective Conductor:	Braid of tinned copper wires
Inner Sheath:	Synthetic rubber based compound
Outer Sheath:	Polychloroprene rubber, oil and abrasion resistant, flame retardant

CONSTRUCTION DATA

Configuration n×q/q_1 [mm²]	Copper Content [kg/km]	Cable Diameter [mm]	Cable Mass [kg/km]	Configuration n×q/q_1 [mm²]	Copper Content [kg/km]	Cable Diameter [mm]	Cable Mass [kg/km]
3×2.5/2.5	96	18	384	3×70/35	2,352	51	4,563
3×4/4	154	20	560	4×2.5/2.5	120	20	511
3×6/6	231	24	730	4×4/4	192	21	652
3×10/10	384	25	1,045	4×6/6	288	25	1,034
3×16/16	615	30	1,542	4×10/10	480	29	1,414
3×25/16	**874**	**33**	**1,784**	**5×2.5/2.5**	**144**	**22**	**645**
3×35/16	**1,162**	**38**	**2,351**	**5×4/4**	**231**	**23**	**790**
3×50/25	1,680	47	3,345	5×10/10	346	28	1,130
3×95/50	**3,200***	**65***	**6,200***	***Estimated values**			

Legend:
- n = Number of cores
- q = Nominal cross-section of conductor [mm²]
- q_1 = Nominal cross-section of protective conductor [mm²]
- Highlighted rows indicate the three specified product configurations

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:	5D (where D = cable diameter)

APPLICATIONS

Primary Application: Cable is intended for connecting various users in mines with underground exploitation, where danger of methane and coal-dust explosion is present.

Usage Categories:

- Power cable applications for mining equipment
- Signal and control cable applications for automation systems
- Underground mining electrical distribution
- Mobile mining equipment connections
- Hazardous location electrical installations

Environmental Suitability: Designed for underground mining conditions with resistance to oil, mechanical abrasion, flame propagation, and methane/coal dust 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 hazardous mining environments.

COMPLIANCE & STANDARDS

Manufacturing Standard:	SRPS N.C5.353
Cable Classification:	Flexible Low Voltage Mining Cable
Safety Classification:	Mining Cable for Hazardous Locations
Quality Assurance:	Factory tested to specified parameters