

Data sheet

Status: draft

Type: 2XSCH ...x.... R.. 0,6/1 kV

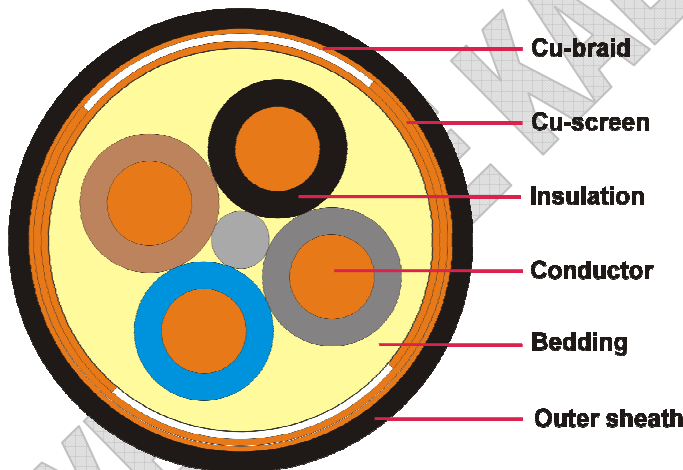
Standard: Following to IEC 60502-1 and HD 603 S1
Core identification acc. to HD 308 S2

Characteristics: Flame-retardant and self-extinguishing acc. to IEC 60332-1-2
Halogen-free acc. to IEC 60754-2
Corrosivity (acidity) of fumes acc. to IEC 60754-2
Water resistance (EN 60811-402)
Laying compatibility in earth (EN ISO 846)
UV- and weather-resistance following to EN 50289-4-17

Regulation: Conformity to EG-low voltage directive,
RoHS-Guideline (Restriction of Hazardous Substances) and
REACH (European Chemical Regulation)

Application: The cables are suitable for permanent laying in dry, moist and wet rooms and directly in the ground.

Schematic Cable Design (this drawing is not true to size, it's provided for illustrative purposes only):



Design Data:

Conductor	- standard	: acc. to EN 60228
	- form - conductor up to and including 16 mm ²	: round, solid
	- conductor 25 mm ² and more	: round, stranded
	- material	: E-Cu, bare
Insulation	- material	: VPE acc. to HD 603 S1 Tab. 2 DIX3
	- thickness - nominal value / minimum value [mm]	: acc. to HD 603 S1 Tab. 5
	- core identification	: more than 5 cores: black with white printed numbers, up to 4 cores: brown, black, grey, blue

Design Data (continuation):

Laying up	- manner		: cores in concentric layers
Lapping	- material		: one or more layers of plastic foil, paper or non-woven tape only applied by more than 5 cores
Bedding	- material		: extruded filling compound only applied by less than 5 cores
	- thickness - nom. value	[mm]	: acc. to IEC 60502-1
Screen	- material		: one or two layers of copper tape and a tinned copper braid
Outer sheath	- material		: halogenfree, flame-retardant compound acc. to EN 50290-2-27
	- colour		: black
	- thickness – mean / min. value	[mm]	: acc. to IEC 60502-1
	- identification		: running meters / 2XSCH ...x... R./... 0,6/1kV BAYKA year of manufacture

Technical Data:

Outer diameter	- approx. value	[mm]	: depending on cross-section
Weight	- approx. value	[kg/km]	: depending on cross-section
Max. Pulling force ¹⁾		[kN]	: depending on cross-section
Min. Bending diameter	- during installation	[mm]	: 12 x Outer diameter
	- laying in end position ²⁾	[mm]	: 6 x Outer diameter
Max. D.C. resistance of conductor (at 20 °C)		[Ω/km]	: depending on cross-section, acc. to EN 60228
Max. D.C. resistance of screen at 20 °C		[Ω/km]	: depending on cross-section acc. to EN 60228
Max. Transfer Impedance for frequencies ≤ 10 MHz		[mΩ/m]	: 10
Max. safe working temperature		[°C]	: 90
Max. short-circuit temperature		[°C]	: 250
Min. temperature (cable temperature) during installation		[°C]	: -5
Rated short-time current (1s)		[kA]	: depending on cross-section
Testing voltage (A.C) - 5 min.		[kV]	: 4

¹⁾ Conductor ends connected with the outer protective covering for high tensile stresses

²⁾ Professional laying only (acc. HD 603 S1)

only at following assumption

- one time bending
- professional laying only
- warming the cable up to 30 °C
- bending the cable over pattern (without tensile stress)