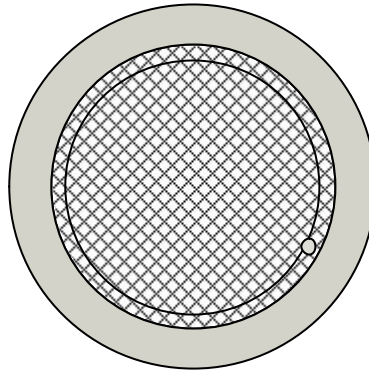


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Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet

HF-Switchboard cable 120Ω



Design

Wire:

Bare copper wire

∅ 0.4 mm (0,016 in)

Insulation of foamed Polyethylen (PE) with skin

∅ (0.8 ± 0.03) mm (0.031 ± 0.001 in)

Quad:

4 wire twisted to form a quad

∅ 1.93 mm (0.076 in)

Sequence of colors see table

Core:

Filler as central element

1. layer: 4 quad

Quad	a-wire	b-wire	c-wire	d-wire
1	WH	BU	TQ	VT
2	WH	OG	TQ	VT
3	WH	GN	TQ	VT
4	WH	BN	TQ	VT

Identification thread

Plastic tape, overlapped

Alulaminat foil overlapped (Alu outside)

Tinned copper drain wire ∅ 0.4 mm

Shield braiding of tinned copper wires 0.15 mm dia

Coverage about 85%

∅ 5.3 mm (0,209 in)

Jacket:

Polyvinylchloride (PVC) GY, RAL 7032

Wall thickness about 0.8 mm

∅ (6.9 ± 0.3) mm (0,272 ± 0,012 in)

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Electrical data at 20°C

Conductor resistance	≤	150	Ohm/km
Insulation resistance	≥	1	GOhm*km
Propagation time	≤	5.7	ns/m
Characteristic Impedance (1 MHz)		(120 ± 12)	Ohm
Attenuation (1 MHz)	≤	2.5	dB/100m
Capacitance (1 kHz)	≈	40	pF/m
Operating voltage (effective value)	≤	300	V
Test voltage (wire/wire/screen rms 50Hz 1min)	=	800	V
Near-end crosstalk attenuation			
Side to side within quad / Side to side different quad (1 MHz)	≥	50	dB
		(20 MHz)	≥ 30 dB
Far-end crosstalk attenuation (1 MHz)			
Side to side within quad / different quad	≥	60	dB
Screening attenuation (30 - 1000 MHz)	≥	80	dB

Mechanical and thermal characteristics

Conductor material acc. to DIN EN 13602 Cu-ETP-A...

Screen material acc. to DIN EN 13602 Cu-ETP-A...-B

Insulating material acc. to DIN EN 50290-2-23 (VDE0819), table 2/A (HD 624.3)

Stripping force of insulation: ≤ 4.5 N, Stripped length 50 mm

Jacket material acc. to DIN EN 50290-2-22 (VDE0819), compound type TM51 (HD 624.2)

Solderability acc. to DIN VDE0472, Part 808 Method: B

Soldering Shrinkage acc. to DIN VDE0472, Part 808 Method: B

Shrinkage max. 1.0 mm

UL-Style 2835A

Application / Special feature:

Use: Wrap-/Solder connections and for insulation displacement connections.

Permissible temperature range:

before and after Laying -30°C up to +75°C

during Laying -40°C up to +75°C

min. bending diameter allowed:

multiple bendings ≥ 160 mm

one bending ≥ 80 mm

PVC weight with Phthalate : 22 Kg/km

PVC weight without Phthalate : 0.0 Kg/km

Weight about : 76 Kg/km (49 lb/1000ft)