

**CONSTRUCTION MODEL**

-FOR GUIDANCE PURPOSES ONLY, SPECIFICATIONS ARE SUBJECT TO CHANGE-

**C 182217****E3**

STANDARD

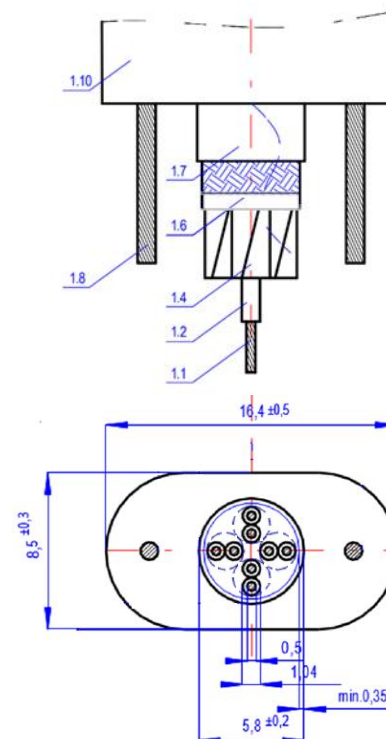
ISSUE

**1. DESIGN DATA**

- 1.1 **CONDUCTOR** : bare copper wires (max.  $\varnothing$  0.16mm)
- 1.2 **INSULATION** : skin-foam polyolefine according for IEC 61156-6
- 1.3 **PAIR STRANDING** : each 2 cores stranded together,  
pair 1: wh-bu, pair 2: wh-or, pair 3: wh-gn, pair 4: wh-bn.
- 1.4 **PAIR SCREEN** : none.
- 1.5 **TOTAL STRANDING** : 4 unscreened pairs stranded together,
- 1.6 **OVERALL SCREEN** : AL-PETP foil, Al outside over 4 unscreened pairs,  
Tinned copper wires ( $\varnothing$  0.10mm) over AL-PETP foil,
- 1.7 **INNER SHEATH** : FRNC, colour: black.
- 1.8 **STRAIN BEARING MEMBER**: strand of steel wires (max.  $\varnothing$  0.20mm).
- 1.9 **PARTING COMPOUND** : special parting compound.
- 1.10 **SHEATH** : FRNC grade according EN 50363-7 TM7, Shore D 31  $\pm$  5, colour : bk.

**2. CHARACTERISTICS**

- 2.1 **MAX. CONDUCTOR RESISTANCE** : 143 Ohm/km at 20°C.
- 2.2 **TEST VOLTAGE** : 0,5 kV<sub>eff</sub>/1 minute.
- 2.3 **IMPEDANCE** : 100 Ohm, Cat5e according for IEC 61156-6
- 2.4 **Charakter. IMPEDANCE** : 100 Ohm, Cat5e according for IEC 61156-6
- 2.4 **MUTUAL CAPACITANCE** : < 52 nF/km.
- 2.5 **LONGITUDINAL ATTENUATION** : according to IEC 61156-6.
- 2.6 **NEAR END CROSSTALK ATTENUATION** : according to IEC 61156-6
- 2.7 **REL. SIGNAL SPEED** : approx. 74%.
- 2.8 **RUNTIME** : approx. 4,5 ns/m.
- 2.8 **OPERATION TEMPERATURE** : - 5°C to +70°C.
- 2.9 **APPLICATION** : Category 5e according to IEC 61156-6  
Flexible application with continuous bending
- 2.10 **BENDING RADIUS** : 8x cable thickness (laid), 10x cable thickness (moved).
- 2.11 **FREE HANGING LENGTH** : max. 120m.
- 2.12 **FLAME RESISTANCE** : according to EN 60332-1-2.
- 2.13 **OIL RESISTANCE** : according to IEC 60811-404 (oil Nr.2 - 240h/23°C).
3. **WEIGHT** : approx. 165 g/m.
4. **IDENTIFICATION** : Imprint according to customers order.
5. **DELIVERY MAKE-UP** : On drums E-10 (1000mm flange- $\varnothing$ )with regular-length 1000m.

**SF/UTP Cat.5e 4x2x0,14 FRNC FH120M BK**

PART No.	DESIGNED	CHECKED	DATE	EXTERNAL SPECIFICATION	PAGE
182217	Strasser	Barinov	20.04.2023	-	1 of 1