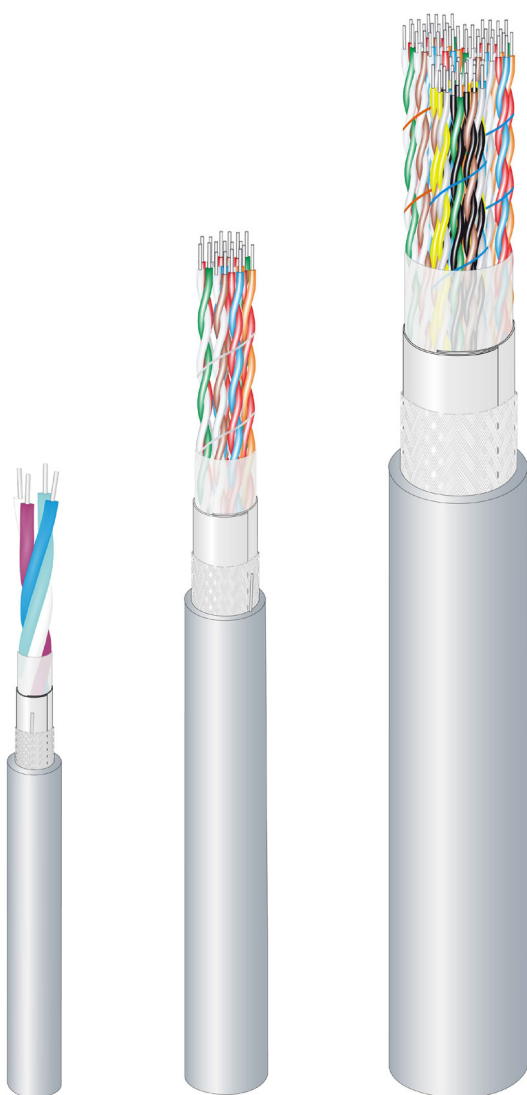


HF Pair cables TEL 481 02

ELAFQBU/120



Features

- Impedance 120 ohm
- Screened by an aluminum foil and copper braid
- Cable sizes 1 -16 pair as standard
- UL listed
- Halogen-free design
- ROHS compliant

Application

Intended for indoor use in transmissions systems. Ideally suited for E1 transmission applications.

The cable is polyethylene insulated, pair twisted screened by an aluminum foil and braid. Overall a jacket of halogen-free compound is applied



LISTED E194530



Cable design

- **Conductor**.....solid tin-plated copper wireØ 0.4 mm
- **Insulation**.....solid polyethylene, TEL 481 02/001 foam skin PE
- **Pair**.....twisted pairs, TEL 481 02/4 quad.
- **Unit**.....eight pairs stranded into a unit with color coded binder
- **Lay up**.....1-16 pair: concentric stranded pairs in one unit. *Figure 1*
24 pair: concentric stranded with 8 pair units. *Figure 2*
2 pair TEL 481 02/4, *figure 3*
- **Wrapping**.....plastic tape
- **Screen**.....aluminum foil and braid of tinned copper wires.
- **Drain wire**.....tinned copper wire Ø 0.4 mm
- **Jacket**.....flame retardant halogen free thermoplastic compound.

General data

- Operating voltage**.....100 V
- Operating temp**.....-20 to +75 °C
- Bending radius**.....6x diam. (min)
- Flame resistance**.....IEC 60332-3- 24,
UL 444, rating according to
table 1
- Halogen free**.....IEC 60754-2
- Marking on jacket**.....manufacturer, year and week
of manufacture, Ericsson
product No., UL marking and
length marking
- Color**.....Grey

Electrical data

- Rated to**.....16 MHz
- Resistance**.....153 ohm/km (max)
- Impedance**.....120±15 ohm at 1 MHz
- Attenuation**.....according to table 1
- Near end crosstalk loss**.....52 dB at 1 MHz
- Transfer impedance**.....10 mohm/m (30 MHz)

Figure 1

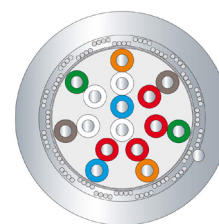


Figure 3

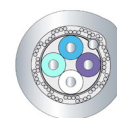


Figure 2



Order information

Product number	Number of pairs x conductor diam	Delivery length/ drum	Cable Diam. mm	Net weight kg/100m
TEL 481 02/001	1x2x0.4	500 m/K3	4.4	2,9
TEL 481 02/4	2x2x0.4	2000 m/K5	4.5	2,9
TEL 481 02/002	2x2x0.4	500 m/K4	4.7x7.1	3,8
TEL 481 02/004	4x2x0.4	1500 m/K6	6.1	5,0
TEL 481 02/008	8x2x0.4	500 m/K5	8.3	7,5
TEL 481 02/016	16x2x0.4	500 m/K6	10.1	13
TEL 481 02/024	24x2x0.4	500 m/K6	12.2	16

Table 1

Product number	Attenuation dB/100m max.	UL rating
TEL 481 02/001	3.2	CMR
TEL 481 02/4	3.3	CMG
TEL 481 02/002	3.4	CMG
TEL 481 02/004	3.0	CMR
TEL 481 02/008	2.8	CMR
TEL 481 02/016	2.8	CM
TEL 481 02/024	2.8	CM

Color code 2 – 24 pair

Unit No	Pair No.	Color of core A-core	B-core	Identification color of unit
1 A	1	white	blue	Blue
	2	white	orange	
	3	white	green	
	4	white	brown	
	5	red	blue	
	6	red	orange	
	7	red	green	
	8	red	brown	
1 B	9	black	blue	Blue
	10	black	orange	
	11	black	green	
	12	black	brown	
	13	yellow	blue	
	14	yellow	orange	
	15	yellow	green	
	16	yellow	brown	
2 A	17 - 24	See unit 1 A		Orange

Color code 2 pair, TEL 481 02/4

Color code 1 pair

Pair No.	Color of core A-core	B-core
1	white	black

Pair No.	Color of core A-core	B-core
1	white	Blue
2	turquoise	violet