

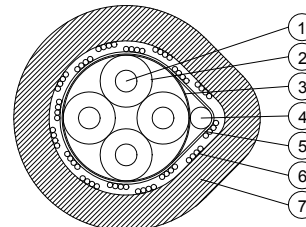
Uppgjord (även faktaansvarig om annan) - Prepared (also subject responsible if other)		Nr - No.		1301-TEL 481 02/4 Uen	
ECA/T/TK ECAHN		Datum - Date		Rev	File
Dokansv/Godk - Doc respons/Approved		2007-05-30		D	=/LZB 101 01/10B
ECA/T/TKC (Mattias Andersson)		Kontr - Checked			

26 AWG HALOGEN FREE SCREENED MF QUAD CABLE FOR INDOOR USE.

1

GENERAL

Product code TEL 481 02/4
 Application 120Ω specified to 1 MHz.
 Fire requirement UL CMG
 Classification UL 444 LISTED
 Net mass 30 kg/km.



2

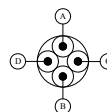
DIMENSIONS AND MATERIAL PROPERTIES

Pos	Item		Limit	Value	Test method	Clause	Unit
	Number of pairs			2			
1	Conductor solid CU tinned.	∅	Nom	0.4			mm
2	Insulation PE solid.	∅	Nom	0.96	IEC 60189-1	2.2.3	mm
3	Plastic foil (optional)	t	Nom	0.02			mm
4	Drain wire solid CU tinned.	∅	Nom	0.4			mm
5	HF-screen Al-plastic-Al.	t	Nom	0.03			mm
6	Braid CU tinned Cov. Single braid wire	∅	Min Nom	60 0.15	IEC 60096-0-1		% mm
7	Sheath FRPE Wall thickness	∅ t	Avg Nom	4.5 ± 0.5 0.65	IEC 60189-1	2.2.1	mm mm

3

COLOURS OF INSULATION ACCORDING TO IEC 60189-2

Quad no.	A-core	B-core	C-core	D-core
1	White	Blue	Turquoise	Violet



A stripe or ring on A or (A and B) core with the opposite insulations colour is allowed.

4

SHEATH MARKING

Marking on sheath shall be twice per metre if not otherwise is stated.
 Sheath colour grey RAL 7001 and marking colour blue or black.

NAME XXXX YYWW PRODUCT CODE FIRE RATING PAIR GAUGE TEMP LENGTH

NAME	ERICSSON.
XXXX	Identification code for manufacturing plant.
YYWW	Year and week of manufacture, e.g. 0003. once per metre.
PRODUCT CODE	ERICSSON product code.
FIRE RATING	Type of fire rating cable shall comply with.
PAIR	Number of pairs.
GAUGE	Dimension of conductor in AWG.
TEMP	Maximum operation temperature for cable in degrees Celsius.
LENGTH	Sequential length markers once per metre, continuous length marking is allowed.

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5 ELECTRICAL, MECHANICAL AND ENVIRONMENTAL PROPERTIES

All measurements are to be performed at 20°C unless otherwise stated in the table below.

Characteristic	Freq. (f)	Unit	Test method	Clause	Limit	Value	Unit
Resistance conductor		DC	IEC 60189-1	5.1	Max	153	mΩ/m
Resistance unbalance		DC	IEC 60708	24	Max	2	%
Capacitance mutual	1	kHz	IEC 60189-1	5.4	Nom.	49	pF/m
Capacitance earth unbalance	1	kHz	IEC 60189-1	5.5	Max	3000	pF/km
Insulation Resistance		DC	IEC 60189-1	5.3	Min	5000	MΩkm
Dielectric strength cond.-cond. Cond.-screen.		DC	IEC 60189-1	5.2	Min	2.5	kV 2sec
		DC	IEC 60189-1	5.2	Min	2.5	kV 2sec
Resistance screen		DC	IEC 60189-1	5.1	Max	13	mΩ/m
Transfer impedance	30	MHz	IEC 61156-1	3.2.7	Max	10	mΩ/m
Screening attenuation	30	MHz	U.C			50	dB
Impedance characteristic	1	MHz	IEC 61156-1	3.3.6		120 ± 15	Ω
Attenuation	1	MHz	IEC 61156-1	3.3.2	Max	3.3	dB/100m
Near end crosstalk NEXT.	1	MHz	IEC 61156-1	3.3.4	Min	52	dB
Far end crosstalk ELFEXT.	1	MHz	IEC 61156-1	3.3.5	Min	56	dB @ 100m
Stripping force of insulation			IEC 60189-1	3.4.2	Min	1	N
			IEC 60189-1	3.4.2	Max	10	N
Stripping force of Sheath			IEC 60189-1	3.4.2	Min	5	N
			IEC 60189-1	3.4.2	Max	25	N
Bending radius					Min	27	mm
Pulling force					Max	25	N
Operating temperature					Min	- 20	°C.
					Max	+75	°C.
Fire properties			UL 1685 FT4			Pass	
			IEC 60332-3-24			Pass	
Amount of acid halogen gas			IEC 60754-2		Max	1	%

6 REFERENCE STANDARDS

ECA 105 49-101	Communications Cable.
IEC 60096	Radio-frequency cables
IEC 60189	Low-frequency cables and wires with PVC Insulation and PVC Sheath. – Part 1: General Test and Measuring Methods. – Part 2: Cables in Pairs, Triples, Quads and Quintuples for inside installations.
IEC 60708	Low-frequency cables with polyolefin insulation and moisture barrier polyolefin sheath.
IEC 61156	Multicore and symmetrical pair/quad cables for digital communications.
IEC 60332	Tests on electric cables under fire conditions.
UL 444	Communications Cable.
UL 1685	Test for Flame Propagation.

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