

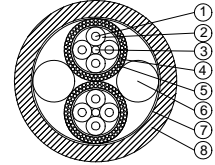
Uppgjord (även faktaansvarig om annan) - Prepared (also subject responsible if other)		Nr - No.	
ECA/T/TK Hans Nilsson		1301-TEL 301 7006	Uen
Dokansv/Godk - Doc respons/Approved	Kontr - Checked	Datum - Date	Rev
ECA/T/TKC (Mattias Andersson)		2008-04-01	B
		File	=/LZB 101 01/10B

30AWG HALOGEN FREE SCREENED MF QUAD CABLE UL LISTED CMR

1

GENERAL

Product code TEL 301 7006/4



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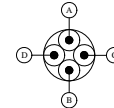
DIMENSIONS AND MATERIAL PROPERTIES

Pos	Item	Limit	Value	Test method	Clause	Unit
	Number of pairs		4			
1	Conductor CU solid tinned or Ag plated	∅	Nom 0.25			mm
2	Insulation solid PE or PP	∅	Nom 0.7	IEC 60189-1	2.2.3	mm
3	Quad filler (optional)					
	Wrapping plastic foil (optional)					
4	HF-screen Al-plastic foil, Al facing out	t	Nom 0.03			mm
5	Braid CU tinned Cov.		Min 60	IEC 60096-0-1		%
	Single braid wire	∅	Nom 0.10			mm
6	Filler yarn or rod	∅	Nom 1.5	IEC 60189-1	2.2.3	mm
7	Wrapping plastic foil (optional)	t	Nom 0.02			Mm
8	Sheath FRPE	∅	5.3 ± 0.5			mm
	Wall thickness	t	Nom 0.6	IEC 60189-1	2.2.1	mm

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COLOURS OF INSULATION ACCORDING TO IEC 189-2

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



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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	360	mΩ/m
Resistance unbalance		DC	IEC 60708-1	24	Max	4	%
Capacitance mutual	1	kHz	IEC 60189-1	5.4	Nom.	46	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	16	mΩ/m
Transfer impedance	30	MHz	IEC 61156-1	3.2.7	Max	20	mΩ/m
Screening attenuation	50-2000	MHz	IEC 62153-4-4		Min	50	dB
Characteristic impedance (Zc)	1	MHz	IEC 61156-1	3.3.6		120 ± 15	Ω
Attenuation	1	MHz	IEC 61156-1	3.3.2	Max	64	dB/100m
Near end crosstalk NEXT.	1	MHz	IEC 61156-1	3.3.4	Min	52	dB
Net mass					Nom	25	Kg/km
Bending radius					Min	20	mm
Pulling force					Max	50	N
Operating temperature					Min	- 20	°C.
					Max	+75	°C.
Fire properties			UL 1666 CMR			Pass	
			IEC 60332-3 C			Pass	

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5 **SHEATH MARKING**

Marking on sheath shall be twice per metre if not otherwise is stated.
 Sheath colour black and marking colour white.

ERICSSON 1402 YYWW TEL3017006/4 CMR c(UL)us 2 Quad 30 AWG Max 75°C LENGTH

YYWW Year and week of manufacture, e.g. 0003. once per metre.
 LENGTH Sequential length markers once per metre, continuous length marking is allowed.

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 60332 Tests on electric cables under fire conditions.
- IEC 60708 Low-frequency cables with polyolefin insulation and moisture barrier polyolefin sheath – Part 1: General design details and requirements.
- IEC 61156 Multicore and symmetrical pair/quad cables for digital communications.
- IEC 61196 Radio-frequency cables
- UL 444 Communications Cable.
- UL 1666 Test for Flame Propagation.

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