

Uppgjord (även faktaansvarig om annan) - <i>Prepared (also subject responsible if other)</i>	Nr - No.		
EMWCCR	1301-TZC 500 97 Uen		
Dokansv/Godkänd - <i>Doc respons/Approved</i>	Kontr - <i>Checked</i>	Datum - <i>Date</i>	Rev
MO/EAB/JP/D Christer Claesson		2006-03-30	A
			File

COAXIAL CABLE

1 GENERAL

50 Ω coaxial cable for telecommunications intended for outdoor use.
DC up to 4 GHz.



2 VITAL SAFETY REQUIREMENTS

This article forms a part of a product with special approval. Changes may not be introduced without previous confirmation by design responsible.

3 DESIGN

3.1 CONDUCTOR

Solid copper or copper clad aluminium: OD = 1.8 mm \pm 0.025 mm

3.2 DIELECTRIC

Extruded foamed polyethylene (PE): OD = 4.8 mm \pm 0.13 mm
The dielectric shall adhere to the centre conductor.

3.3 SHIELDING

Tinned plated copper wire over wrapped Al-foil bonded to the dielectric. 100% foil coverage and 85% braid coverage.
OD = 5.7 mm

3.4 JACKET

Extruded black polyethylene (LDPE).
OD = nom 7.6 mm \pm 0.20

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4 LIMITING VALUES

4.1 ELECTRICAL VALUES

Parameter	Symbol	Conditions	Values	Unit
Impedance	Z		50 ± 2	Ω
Frequency range	f		DC-4	GHz
Velocity of propagation	v		85	%
Capacitance	C		78	pF/m
Conductor resistance DC	R _C		8.0	Ω/Km
Shield resistance DC	R _S		11.0	Ω/Km
Loop resistance DC	R _L	max.	19.0	Ω/Km
Maximum attenuation at frequency:		140 MHz	12.0	dB/100 m
		350 MHz	18.0	
		900 MHz	23.0	
		1800 MHz	32.0	
		2000 MHz	34.0	
Rated Voltage	U _R		600	V AC
Breakdown voltage	U _{break}		1500	V DC
Tensile strength		Cable	> TBD	N

4.2 MECHANICAL VALUES

Parameter	Symbol	Conditions	Values	Unit
Dielectric adhesiveness to centre conductor		According to 1521-TBD	> TBD	N
Bending radius static			min. 50	mm

4.3 ENVIRONMENTAL RESISTANCE

Temperature range - 40....+ 80 °C

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5 BANNED AND RESTRICTED SUBSTANCES

All included parts shall be RoHS compliant.

All included parts shall be free from Ericsson banned and restricted substances according to document 03401-2294 Uen

6 PRODUCT QUALITY

The product shall meet applicable requirements in Quality specification

105 63-2031 Uen.

7 MARKING

The cable shall be marked with at least the following text along the outside of the sheath, per metre if not otherwise is stated below the table:

ERICSSON PPP PPP PP YYWW BBBBB LLLLL M

PPP... = Part number, TZC 500 97.

YYWW = Year and week of manufacture.

BBBBB = Batchnumber (optional marking).

LLLLL = Sequential length markers with a pitch of maximum two meters, continuous length marking is allowed

The marking shall be resistant to mechanical wearing that can arise under normal handling, storing and operation.

8 DELIVERY

Reel max OD TBD mm. Delivery lengths, see product list.

9 REFERENCES

034 01-2294 Uen

Ericsson banned and restricted substances

105 63-2031 Uen

General quality requirements on components

10 INTERNAL INFORMATION

10.1 STORAGE

Spool must stand up (horizontal axis).

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PRODUCT LIST

Product code Purchased	Delivery lengths	Weight
TZC 500 97	Continious lengths min 500m, max 520m. Nominal length 500m	81 kg/km

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REVISION RECORDS

Rev	Description
B	