



## CERTIFICATE FI 25999

Our Ref. 260325-1

**Product** Connector for power cables  
**Type** TO21016, TO21050, TO21095, TO21120, TO21150, TO21240  
**Trade mark** Ouneva  
**Certificate Holder/Manufacturer** Ouneva Oy  
 Teollisuustie 21  
 FI-82730 TUUPOVAARA, FINLAND

Technical information	Type	Cross-section area	U <sub>n</sub>	I <sub>n</sub>	Class
	TO21016	Al/Cu 1,5 – 16 mm <sup>2</sup>	1000 V	82 A	A
	TO21050	Al/Cu 1,5 – 50 mm <sup>2</sup>	1000 V	160 A	A
	TO21095	Al/Cu 6 – 95 mm <sup>2</sup>	690 V	245 A	A
	TO21120	Al/Cu 16 – 120 mm <sup>2</sup>	690 V	280 A	A
	TO21150	Al/Cu 25 – 150 mm <sup>2</sup>	690 V	320 A	A
	TO21240	Al/Cu 35 – 240 mm <sup>2</sup>	690 V	425 A	A

**Other information** Colour of the connector covers: grey, blue (s), yellow/green (kv)

**The product is certified according to the following standard(s)** EN 61238-1:2003 with exception, listed in the appendix to this Certificate

**Validity** This certificate is valid until 18 June 2015 unless the standard in question has been amended or superseded with significant changes in requirements, in which case, SGS Fimko has the right to shorten the validity of the certificate based on the legislation of the European Union. This certificate includes the right to use the FI mark under the condition that changes (if any) will be checked at SGS Fimko before the product is brought onto market and that the conditions for FI certification are met.

**Directive information** The product(s) fulfils the essential safety requirements for CE conformity marking according to the Low Voltage Directive (2006/95/EC) at the date of issue of the certificate.

**Date of issue** 18 June 2010

**SGS Fimko Ltd**

**Signature**

  
 Sixten Löfkors  
 Project Manager



This certificate has 1 appendix



This certificate is issued by the company under its General Conditions for Certification Services accessible at [www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this certificate. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Fimko Ltd.

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Member of the SGS Group (SGS SA) Switzerland



Appendix to Certificate: 25999

**Manufacturing site**

Ouneva Oy  
Teollisuustie 21  
FI-82730 TUUPOVAARA, FINLAND

**Additional information**

Connectors have specified nominal currents.  
Connectors subjected to test according to standard EN 61238:2003 with following exception:  
Current in the test was 1,3 times the nominal current of the connectors.

Type	Tightening torque	
TO21016	1,5 – 6 mm <sup>2</sup>	1,5 Nm
	10 – 16 mm <sup>2</sup>	7 Nm
TO21050	1,5 – 10 mm <sup>2</sup>	1,5 Nm
	16 – 50 mm <sup>2</sup>	12 Nm
TO21095	6 – 25 mm <sup>2</sup>	12 Nm
	35 – 95 mm <sup>2</sup>	22 Nm
TO21120	16 – 35 mm <sup>2</sup>	12 Nm
	50 – 120 mm <sup>2</sup>	25 Nm
TO21150	25 – 50 mm <sup>2</sup>	14 Nm
	70 – 150 mm <sup>2</sup>	30 Nm
TO21240	35 – 120 mm <sup>2</sup>	26 Nm
	150 – 240 mm <sup>2</sup>	55 Nm

Colour code    blue            TO21xxx.B  
                     yellow/green    TO21xxx.YG

2-piece connectors of the same product family (Certificate FI 26000)

This certificate replaces previous certificates FI 22280 dated 2005-11-30 and FI 23421 A1 dated 2007-07-30, due to changed and added types and changed name and address of Certificate holder, Manufacturer and Manufacturing site.