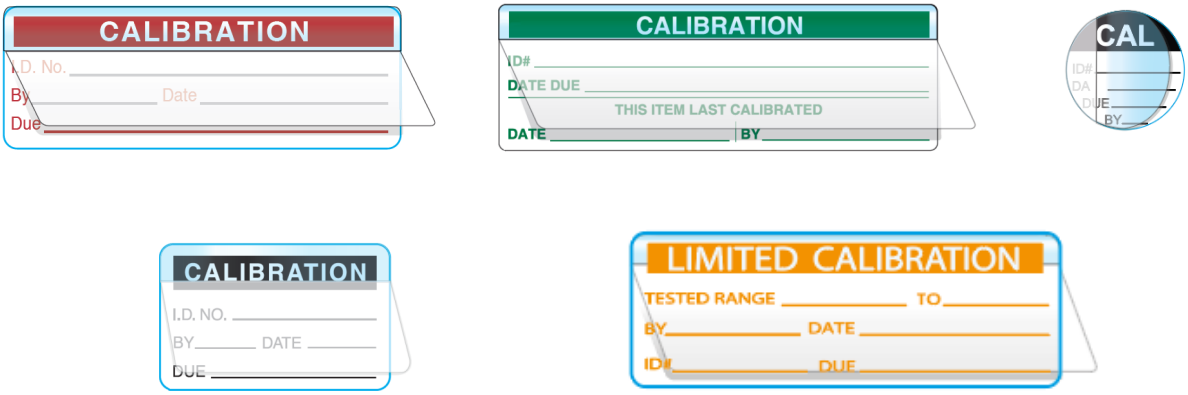


Permanent Q-Cee's labels

Type QCC

Technical Datasheet

TTDS-253 Revision 1
April 2023

QCC labels are designed for use on gages and instruments that are subjected to constant handling, cutting oils, or chemicals.

The labels are all made from a high quality flexible vinyl base material for tough performance. They are backed with a strong permanent acrylic adhesive. The construction allows use in many applications.

These labels are designed with a writable surface. This allows the user to add additional information e.g. date of test, operator I.D. etc.

After writing information, the label can easily be covered by a self-laminating polyester film that protects the data from tampering, weathering, staining, chemicals and abrasion.

TE recommends to use a high performance, permanent market pen with these labels.

Labels are supplied as individual sheets.

QCC CALIBRATION COVERED LABELS

Features

- Permanent adhesive
- Writable surface
- Self-laminating clear film to protect data from abrasion, cutting oil and chemicals
- Available in multiple colors
- Flat or slightly curved surfaces

Temperature rating

- Operation Temperature Range: -40°C to +110°C (-40°F to +230°F)
- Minimum Application Temperature: 10°C (50°F)

Applications

- Ideal for identification of maintenance or calibration.
- Industrial, Automotive, Rail, Electrical, Laboratory and Warehouse.

Design for Environment

- Does not contain any RoHS (EU 2015/863) substance
- Does not contain any California Prop 65 substances
- No restricted substances as listed in the Toxic Substances Control Act
- Further information and a downloadable declaration covering RoHS and REACH compliance can be found at the TE Product Compliance Support Centre:
- http://www.te.com/usa-en/utilities/product-compliance.html

Shelf life

- Two years when following good commercial storage practice detailed below.

Storage

- Product should be stored in the original packaging, with any plastic covers which were included during shipping.
- Store out of direct sunlight in a clean, dry, dust free, environment.
- Product should be stored at approximately 21°C (70°F) and 50% R.H.

Where possible, TE have tested product as a finished item, including the print. Operational tests are followed by an assessment of mark adherence to validate fit form and function.

QCC CALIBRATION COVERED LABELS

Typical Label Thickness

- Label (including adhesive and overlam) : 0.175 mm / 0.0069 inch
- Liner: 0.140 mm / 0.0055 inch

Technical performance

	Requirements	Results
Print Permanence		
Marking of Electrical Insulating Materials, SAE AS 5942	Legible after 100 rubs 1kg weight with an eraser	Pass
Resistance to solvents, MIL STD 202 Method 215	Legible after 30 wipes	Pass

Fluid Exposure[1]		**Adhesive/color**	**Printed legend**
• Isopropyl alcohol	Labels to remain on test plate, legible (TE doc 109-121012) and no change in pre-printed color	Pass	Pass
• IRM 902 reference oil		Pass	Pass
• Grease		Pass	Pass
• Engine Oil		Pass	Pass
• Diesel Fuel	Samples stuck to Aluminium plates. 24 hours immersion in fluid at 23°C followed by 20 rubs, SAE AS5942	Pass	Pass
• Tap water		Pass	Pass
• 5% Salt solution		Pass	Pass
• Detergent (1% solution)		Pass	Pass

Adhesion to FTM1 (180°)		**Typical Peel force (N/25mm (oz/in.))**	
Test surface:		**20min Dwell**	**72hr Dwell**
• Stainless steel	FTM1 (180°)	11 (40)	12 (42)
• Glass		15 (54)	20 (73)
• Aluminium		12 (42)	15 (54)
• Polypropylene		8 (31)	10 (38)
• Epoxy painted surface		12 (42)	34 (124)

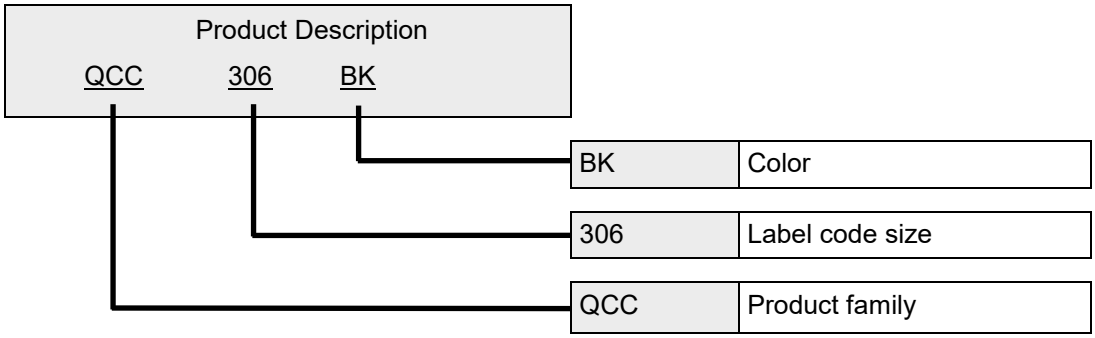
Weatherability		
Artificial weathering to ASTM G154	Labels to remain on plate, no discoloration and legible after 240hr, UV-A and no discoloration	Pass, samples remain legible and no discoloration
Thermal performance		
Heat Aging[1]	Labels to remain on plate, no discoloration and legible after 168hr at 100±2°C	Pass, samples remain legible and no damage to label
Thermal Cycling	Labels to remain on plate, no discoloration and legible after 10 cycles of 1hr at -50°C then 1hr at 90°C followed by 100 rubs	Pass, samples remain legible and no damage to label

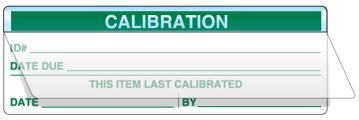
[1] Write-on print performance is dependent on the pen used, some ink diffusion observed with fiber pen.

Where possible, TE have tested product as a finished item, including the print. Operational tests are followed by an assessment of mark adherence to validate fit form and function.

QCC CALIBRATION COVERED LABELS

Ordering information



	Product description	Product order code	Label width (mm)	Label height (mm)	Labels per sheet	Sheets per bag	Color	Design[1]
306	QCC306BK	1878660-7	44.5	15.9	16	9	Black	
	QCC306BU	1878660-9	44.5	15.9	16	9	Blue	
	QCC306GR	1878661-1	44.5	15.9	16	9	Green	
	QCC306OR	1878661-6	44.5	15.9	16	9	Orange	
	QCC306RD	1878661-8	44.5	15.9	16	9	Red	
	QCC306YL	1878662-2	44.5	15.9	16	9	Yellow	
311	QCC311BK	1878662-4	25.4	15.9	24	6	Black	
	QCC311BR	1878662-5	25.4	15.9	24	6	Brown	
	QCC311BU	1878662-6	25.4	15.9	24	6	Blue	
	QCC311GR	1878662-7	25.4	15.9	24	6	Green	
	QCC3110R	1878663-3	25.4	15.9	24	6	Orange	
	QCC311RD	1878663-5	25.4	15.9	24	6	Red	
330	QCC330	1878663-9	76.2	25.4	6	18	Green	
LIM	QCCLIM	1-1878826-3	44.5	15.9	16	9	Orange	
359	QCC359	1878664-7	15.9 Dia.		40	5	Black and white	

[1] Images not to scale.

QCC CALIBRATION COVERED LABELS

Writing information

Writing quality and performance can only be guaranteed when specific TE pen ZUB-01 is used.

PN 1-1768050-0

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