

# QUP and TPR labels

## Technical Datasheet

TTDS-289 Revision 1  
February 2024

QUP and TPR labels provide a convenient way to write on and then protect the information on labels. They work very well on any narrow part of an instrument; they just need to wrap completely around the part until the clear tail covers the writing on the label.

The construction of these labels includes a write on section with a clear tail that wraps around the part and protects the information section. These labels are made from a clear, flexible vinyl with a permanent adhesive. In this way, they adhere tightly to the wire, gage or instrument even when subjected to regular handling.

Labels are supplied as individual sheets for QUP or booklets for TPR.

TE recommends use of the permanent marker pen ZUB-01 (1-1768050-0).



# QUP AND TPR LABELS

## Features

- Suitable for marking flexible parts and cables.
- Hand writable surface.
- Protects written information from chemicals and frequent handling.
- Resistant to dirt, water, alcohol, gasoline, oils and greases.
- Available in multiple colors, dimensions and design.

## Applications

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

## 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.

## Temperature rating

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

## 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>

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.



# QUP AND TPR LABELS

## Typical Label Thickness

- Label (including adhesive) : 0.104 mm / 0.0041 inch
- Liner: 0.141 mm / 0.0056 inch

## Technical performance

Adhesion	Requirements	Results	
		Typical Peel force (N/25mm (oz/in.))	
		20min Dwell	72hr Dwell
Adhesion to Stainless Steel	FTM1 (180°)	14.36N/25mm (52.41oz/in.)	20.44N/25mm (74.61oz/in.)
Fluid Exposure <sup>(1)</sup>		Adhesive/color	Printed legend
• Engine oil	Labels to remain wrapped on mandrel, legible <sup>(2)</sup> and no change in pre-printed color	Pass	Pass
• Diesel oil		Pass	Pass
• Tap water		Pass	Pass
• Molybdenum based grease	Samples wrapped around 8mm mandrels for a 72 hours dwell time followed by a 24 hours immersion in fluid at 23°C.	Pass	Pass
• IRM 902		Pass	Pass
• 1% Detergent Solution		Pass	Pass
• 5% Salt Solution		Pass	Pass
Thermal performance			
Heat Ageing	Labels to remain on plate, no discoloration and legible <sup>(2)</sup> after 168hr at 110±2°C		Pass <sup>(3)</sup>
Thermal Cycling	Labels to remain on plate, no discoloration and legible <sup>(2)</sup> after 10 cycles of 1 hour at -40°C then 1 hour at 110°C		Pass

<sup>(1)</sup>: Resistant to wiping with IPA but not to immersion

<sup>(2)</sup>: According to TE doc 109-121012

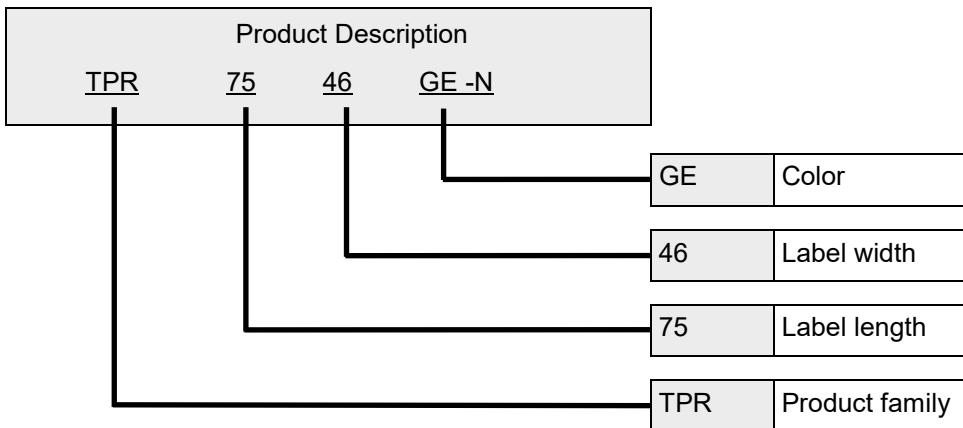
<sup>(3)</sup>: A slight discolouration of the label was observed but writing remained legible

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# QUP AND TPR LABELS

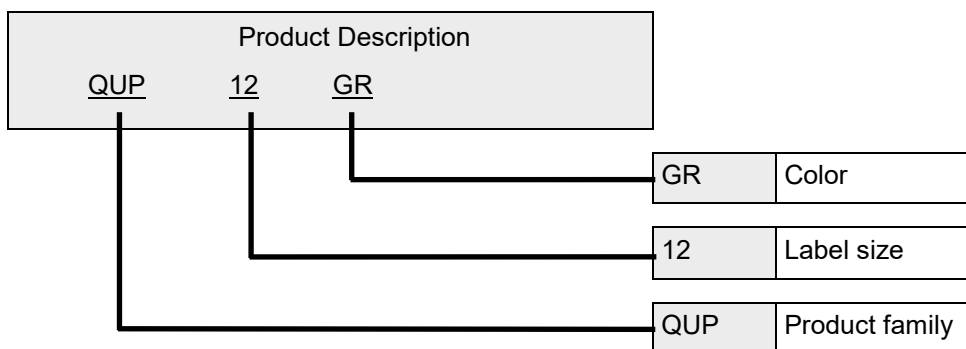
## Ordering information TPR



Product description	Part number	Label width (mm)	Label height (mm)	Printing	Color	Labels per booklet	Cable diameter [min-max] (mm)	Design
TPR7546GE-N	1-1768049-2	46.00	75.00	Geprüft	Yellow	30	[8-16]	
TPR4825GN20N	9-1768048-3	25.00	48.00	Geprüft	Green	90	[5-9]	
TPR4825RT20N	9-1768048-7	25.00	48.00	Geprüft	Red	90	[5-9]	
TPR4825GE20N	8-1768048-9	25.00	48.00	Geprüft	Yellow	90	[5-9]	
TPR4825GN22N	9-1768048-5	25.00	48.00	Nächster Termin	Green	90	[5-9]	
TPR4825GE22N	9-1768048-1	25.00	48.00	Nächster Termin	Yellow	90	[5-9]	

# QUP AND TPR LABELS

## Ordering information QUP



## QUP12

	LENGTH, WRITE ON SECTION	LENGTH, CLEAR SECTION	WIDTH	OVERALL LENGTH
QUP12	50.8mm	101.6mm	6.4mm	152.4mm

Product description	Part number	Color	Labels per sheet	Cable diameter [min-max] (mm)	Design
QUP12BK	1878679-7	Black	12	[16-32]	
QUP12BR	1878679-8	Brown	12	[16-32]	
QUP12BU	1878679-9	Blue	12	[16-32]	
QUP12GR	1878680-1	Green	12	[16-32]	
QUP12LB	1878680-3	Light blue	12	[16-32]	
QUP12LG	1878680-4	Light green	12	[16-32]	
QUP12RD	1878680-8	Red	12	[16-32]	



# QUP AND TPR LABELS

## QUP3

	LENGTH, WRITE ON SECTION	LENGTH, CLEAR SECTION	WIDTH	OVERALL LENGTH
QUP3	25.4mm	127.0mm	25.4mm	152.4mm

Product description	Part number	Color	Labels per sheet	Cable diameter [min-max] (mm)	Design
QUP3BK	1878681-4	Black	3	[8-16]	
QUP3BR	1878681-5	Brown	3	[8-16]	
QUP3GR	1878681-7	Green	3	[8-16]	
QUP3LB	1878681-9	Light blue	3	[8-16]	
QUP3LG	1878682-1	Light green	3	[8-16]	
QUP3RD	1878682-5	Red	3	[8-16]	

## 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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