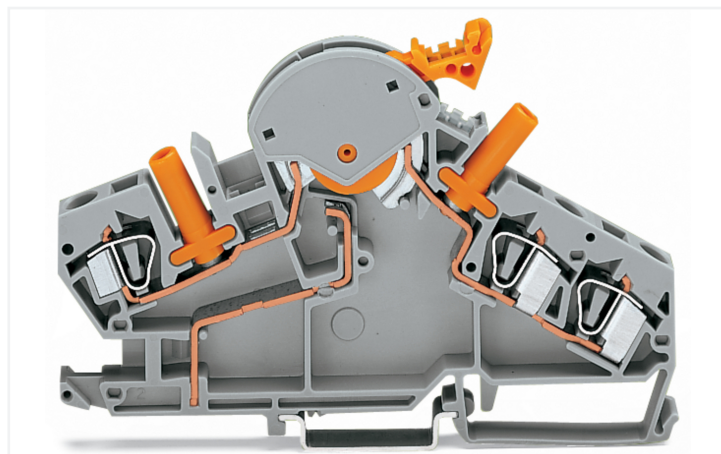
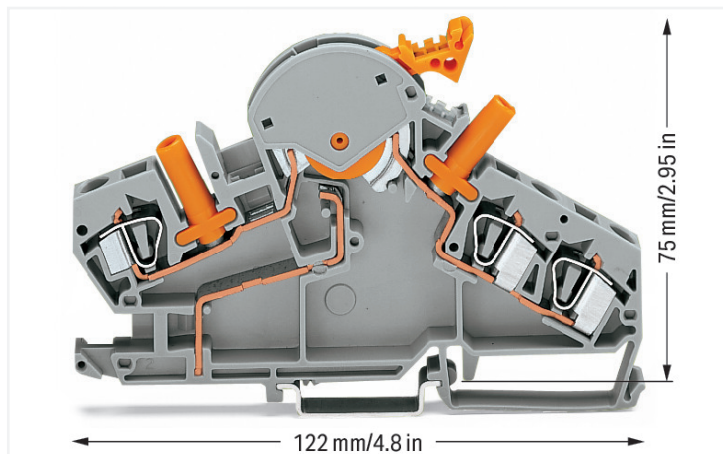


Data Sheet | Item Number: 282-870

3-conductor disconnect/test terminal block; e.g., current transformer circuits; with touch-proof test sockets; for 4 mm Ø test plugs; for DIN-rail 35 x 15 and 35 x 7.5; 6 mm²; CAGE CLAMP®; 6,00 mm²; gray

<https://www.wago.com/282-870>



Color: ■ gray

Electrical data

Ratings per IEC/EN

Nominal voltage (III/3)	500 V
Rated impulse voltage (III / 3)	6 kV
Rated current	30 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

Power Loss

Power loss, per pole (potential)	0.702 W
Rated current I _N for specified power loss	30 A
Resistance value for specified, current-dependent power loss	0.00078 Ω

Connection data

Clamping units	3
Total number of potentials	2
Number of levels	1

Connection 1

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper
Solid conductor	0.2 ... 6 mm ² / 24 ... 10 AWG
Fine-stranded conductor	0.2 ... 6 mm ² / 24 ... 10 AWG
Strip length	12 ... 13 mm / 0.47 ... 0.51 inches
Wiring direction	Front-entry wiring

Physical data

Width	8 mm / 0.315 inches
Height	122 mm / 4.803 inches
Depth from upper-edge of DIN-rail	75 mm / 2.953 inches

Mechanical data

Design	angled
Mounting type	DIN-35 rail
Marking level	Center marking

Material data

Note (material data)	Information on material specifications can be found here
Color	gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.688 MJ
Weight	46.8 g

Environmental requirements

Processing temperature	-35 ... +85 °C
Continuous operating temperature	-60 ... +105 °C

Commercial data

Product Group	1 (Rail Mounted Terminal Blocks)
eCl@ss 10.0	27-14-11-26
eCl@ss 9.0	27-14-11-26
ETIM 9.0	EC000902
ETIM 8.0	EC000902
PU (SPU)	20 pcs
Packaging type	Box
Country of origin	CN
GTIN	4044918692861
Customs tariff number	85365080900

Environmental Product Compliance

CAS-No.	7439-92-1
REACH Candidate List Substance	Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c)
SCIP notification number (Austria)	8b44b459-bc8a-4294-92d0-5870e5057aca
SCIP notification number (Belgium)	0ec07c85-16be-46aa-bacb-7aa795b3c27d
SCIP notification number (Bulgaria)	00727039-2b5f-41b4-acbf-6e3db4a3f55c
SCIP notification number (Czech Republic)	db80c370-42be-4189-8e20-6174ab37eabe
SCIP notification number (Denmark)	b54720c2-5897-4e86-b89d-583df5fd522e
SCIP notification number (Finland)	7533c0d4-2854-4c74-866f-041384878e88
SCIP notification number (France)	6a8a86e8-e8e3-4d99-a667-4c388f8f0615
SCIP notification number (Germany)	c3daf65b-956e-49f3-a4c1-089f7f3965ec
SCIP notification number (Hungary)	13c0d4e3-52dc-46ea-950e-cab1a2645d03
SCIP notification number (Italy)	97c46503-1131-4e03-9d44-f21af3785992
SCIP notification number (Netherlands)	ed8acc29-fbbd-4d7b-9a32-afcb0a7225ec
SCIP notification number (Poland)	6f35dea7-095b-412e-9e05-7def11c33469
SCIP notification number (Romania)	12821fc1-b79c-476a-9ff9-67661d951494
SCIP notification number (Sweden)	ed6a607f-6da0-4d39-83de-73b6eae7552

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7894
cURus Underwriters Laboratories Inc.	UL 1059	E45172
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-120778

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA
BV Bureau Veritas S.A.	EN 60947	07436/F0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 282-870 ↓

Documentation

Additional Information
Technical Section pdf 2246.92 KB ↓

Bid Text			
282-870	19.02.2019	xml 3.47 KB	↓
282-870	02.03.2017	doc 25.00 KB	↓

CAD/CAE-Data

CAD data	CAE data
2D/3D Models 282-870	EPLAN Data Portal 282-870
	WSCAD Universe 282-870
	ZUKEN Portal 282-870

1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate



<p>Item No.: 282-392 End and separator plate; 1.5 mm thick; with lock-out seal option; gray</p>	<p>Item No.: 282-387 End and separator plate; 1.5 mm thick; with lock-out seal option; orange</p>	<p>Item No.: 282-391 End and separator plate; 1.5 mm thick; without lock-out seal option; gray</p>	<p>Item No.: 282-386 End and separator plate; 1.5 mm thick; without lock-out seal option; orange</p>
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1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Locking system



<p>Item No.: 282-384 Lock-out; for disconnect link; yellow</p>
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1.2.2 DIN-rail

1.2.2.1 Mounting accessories



<p>Item No.: 210-196 Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored</p>	<p>Item No.: 210-198 Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored</p>	<p>Item No.: 210-508 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored</p>	<p>Item No.: 210-197 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored</p>
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<p>Item No.: 210-506 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored</p>	<p>Item No.: 210-114 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored</p>	<p>Item No.: 210-118 Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored</p>	<p>Item No.: 210-115 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored</p>
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<p>Item No.: 210-112 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored</p>	<p>Item No.: 210-504 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored</p>	<p>Item No.: 210-113 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored</p>	<p>Item No.: 210-505 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored</p>
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1.2.3 Ferrule

1.2.3.1 Ferrule



Item No.: 216-262

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



Item No.: 216-263

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



Item No.: 216-264

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



Item No.: 216-266

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



Item No.: 216-267

Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

1.2.4 Installation

1.2.4.1 Cover



Item No.: 709-154

Cover; Type 2; suitable for cover carrier, type 2; 1 m long; transparent

1.2.4.2 Cover carrier



Item No.: 709-168

Cover carrier; Type 2; incl. fixing/retaining screws and knurled nut; suitable for 283 to 285 Series rail-mounted terminal blocks; suitable for 279 to 281 Series double- and triple-deck terminal blocks; suitable for 780 to 785, 775, 776 and 777 Series TOP-JOB® rail-mounted terminal blocks; suitable for 280 Series sensor and actuator terminal blocks; suitable for 282 Series disconnect/test terminal blocks for transformer circuits; gray

1.2.4.3 Mounting accessories



Item No.: 209-106

Mounting carrier; for isolated mounting on DIN 35 rails; gray



Item No.: 249-116

Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

1.2.5 Jumper

1.2.5.1 Jumper



Item No.: 282-402
Jumper; insulated; gray



Item No.: 282-409
Jumper; insulated; gray



Item No.: 282-424
Jumper; insulated; orange



Item No.: 282-422
Jumper; insulated; yellow-green



Item No.: 709-110
Wire commoning chain; 2.5 mm²; insulated; black



Item No.: 709-111
Wire commoning chain; 2.5 mm²; insulated; black



Item No.: 709-112
Wire commoning chain; 2.5 mm²; insulated; black

1.2.6 Locking system

1.2.6.1 Locking system



Item No.: 210-254
Interlocking link; mechanically locks multiple links; 1 m long; transparent



Item No.: 282-881
Locking cover; mechanically locks multiple links; 1-pole; transparent



Item No.: 282-882
Locking cover; mechanically locks multiple links; 2-pole; transparent



Item No.: 282-883
Locking cover; mechanically locks multiple links; 3-pole; transparent



Item No.: 282-884
Locking cover; mechanically locks multiple links; 4-pole; transparent



Item No.: 282-885
Locking cover; mechanically locks multiple links; 5-pole; transparent



Item No.: 282-886
Locking cover; mechanically locks multiple links; 6-pole; transparent



Item No.: 282-887
Locking cover; mechanically locks multiple links; 7-pole; transparent



Item No.: 282-888
Locking cover; mechanically locks multiple links; 8-pole; transparent

1.2.7 Marking

1.2.7.1 Group marker carrier



Item No.: 209-143
Group marker carrier; gray



Item No.: 209-144
Group marker carrier; gray



Item No.: 249-105
Group marker carrier; gray

1.2.7.2 Marker



Item No.: 793-5501/000-006
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue



Item No.: 793-5501/000-014
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown



Item No.: 793-5501/000-007
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray



Item No.: 793-5501/000-023
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green



Item No.: 793-5501/000-017
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green



Item No.: 793-5501/000-012
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange



Item No.: 793-5501/000-005
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red



Item No.: 793-5501/000-024
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet



Item No.: 793-5501
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white



Item No.: 793-5501/000-002
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



Item No.: 794-5553/000-002
WMB marking card; as card; MARKED; k/l (each 50); stretchable 5 - 5.2 mm; Horizontal marking; snap-on type; yellow



Item No.: 793-501/000-006
WMB marking card; as card; not stretchable; plain; snap-on type; blue

1.2.7.2 Marker



Item No.: 793-501/000-007
WMB marking card; as card; not stretchable; plain; snap-on type; gray

Item No.: 793-501/000-023
WMB marking card; as card; not stretchable; plain; snap-on type; green

Item No.: 793-501/000-017
WMB marking card; as card; not stretchable; plain; snap-on type; light green

Item No.: 793-501/000-012
WMB marking card; as card; not stretchable; plain; snap-on type; orange



Item No.: 793-501/000-005
WMB marking card; as card; not stretchable; plain; snap-on type; red

Item No.: 793-501/000-024
WMB marking card; as card; not stretchable; plain; snap-on type; violet

Item No.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white

Item No.: 793-501/000-002
WMB marking card; as card; not stretchable; plain; snap-on type; yellow



Item No.: 2009-115/000-006
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

Item No.: 2009-115/000-007
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

Item No.: 2009-115/000-023
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

Item No.: 2009-115/000-017
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green



Item No.: 2009-115/000-012
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

Item No.: 2009-115/000-024
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item No.: 2009-115/000-002
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

1.2.8 Protective warning marker

1.2.8.1 Cover



Item No.: 282-415
Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.2.9 Test and measurement

1.2.9.1 Testing accessories



Item No.: 209-170
Test plug adapter; 8.3 mm wide; for 4 mm Ø test plugs; suitable for 1.5 mm² - 10 mm² tbs; gray

1.2.10 Tool

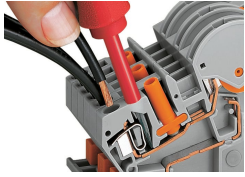
1.2.10.1 Operating tool



Item No.: 210-721
Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured

Installation Notes

Conductor termination

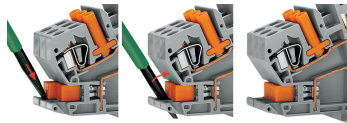


CAGE CLAMP® connection

Inserting a conductor via operating tool (5.5 x 0.8 mm blade).

Additional CAGE CLAMP® connection on the measurement device side, e.g., when connecting wire commoning chains or applying an external voltage.

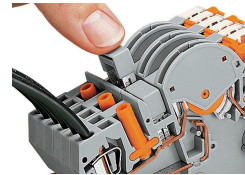
Commoning



Inserting an insulated, touch-proof adjacent jumper into the protected shorting position.

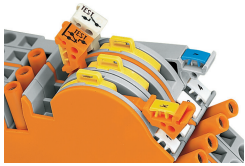


Terminal strip permanently prepared for current transformer circuits.

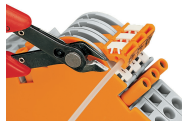


Additional commoning possible with circuit-related adjacent jumpers or testing option via test plug adapter (209-170) on transformer side.

Locking system



Lock-out snaps into one of two notched positions, preventing accidental operation of the disconnect link.



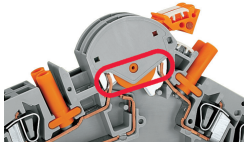
Interlocking link mechanically locks multiple links for multi-pole switching applications.



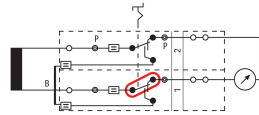
Snapping transparent locking cover onto 1–8 disconnect links:
a) Mechanically lock several links for multi-pole switching applications
b) Protect markers



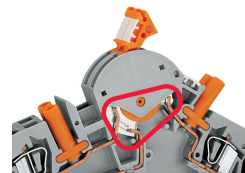
A lock-out seal can be used on the disconnect link in notched "I" position.



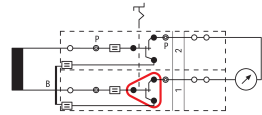
Disconnect link in notched "I" position



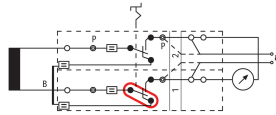
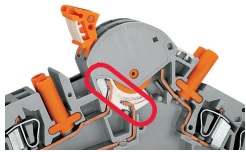
Disconnect link in notched "I" position
In "I" operating position, the measurement device is connected to the transformer.
B = shorting link, P = test socket



Disconnect link in transition from "I" --> "TEST" (terminal blocks 1 + 2)



Disconnect link in transition from "I" --> "TEST" (terminal blocks 1 + 2)
The transformer is **not** disconnected from the measurement device, yet the shorting path is activated by moving disconnect link B from "I" to "TEST."
B = shorting link, P = test socket

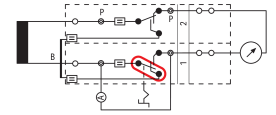
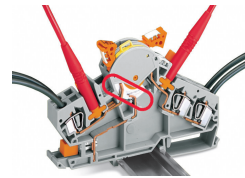


Disconnect link in notched "TEST" position (terminal blocks 1 + 2)

Disconnect link in notched "TEST" position (terminal blocks 1 + 2)

The measurement device/relay is electrically disconnected from the transformer. In this position, if necessary, external voltage can be applied via the test socket, or the 2nd CAGE CLAMP® connection for relay testing in transformer protection circuits.

B = shorting link, P = test socket



Disconnect link in notched "I" position (terminal block 2)

Disconnect link in notched "TEST" position (terminal block 1) – measurement testing

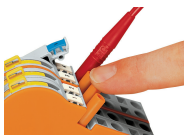
Disconnect link in notched "I" position (terminal block 2)

Disconnect link in notched "TEST" position (terminal block 1) – measurement testing

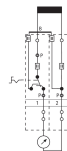
Before moving the disconnect link of terminal block 1 into the notched "TEST" position, the reference current meter must be inserted into the test socket of terminal block 1.

B = shorting link, P = test socket

Testing



Touch-proof test sockets for touch-proof 4 mm Ø test plugs (not available from WAGO, but are offered by industry suppliers such as, Fabrikat Multi-Contact)



Terminal blocks required:
1 x disconnect/test terminal block (282-870)

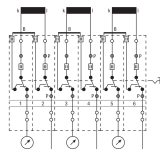
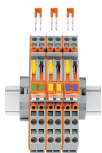
1 x through terminal block (282-865)

1 x jumper, orange (282-424)

1 x end plate, orange (282-386)

In addition: locking cover, lock-out

Measuring set for a single-phase current transformer (without measurement testing)



Terminal blocks required:
6 x disconnect/test terminal block (282-870)

3 x jumper, orange (282-424)

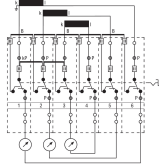
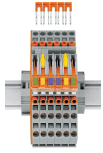
3 x end plate, orange (282-386)

In addition: interlocking link, locking cover, lock-out

Measuring set for a three-phase current transformer

Pairs of disconnect links are interconnected via interlocking link or locking cover. Measurement testing is performed after the interlocking is released.

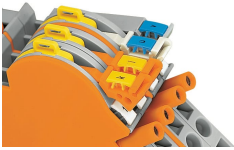
B = shorting link, P = test socket



Terminal blocks required:
6 x disconnect/test terminal block (282-870)
5 x jumper, orange (282-424)
2 x jumper, gray (282-402)
1 x end plate, orange (282-386)
In addition: interlocking link, locking cover, lock-out

Measuring set for a three-phase current transformer with 'Y' point
All six disconnect links are interconnected via interlocking link.
B = shorting link, P = test socket, kP = 'Y' point jumper

Marking



Labeling via WMB Multi Marking System.