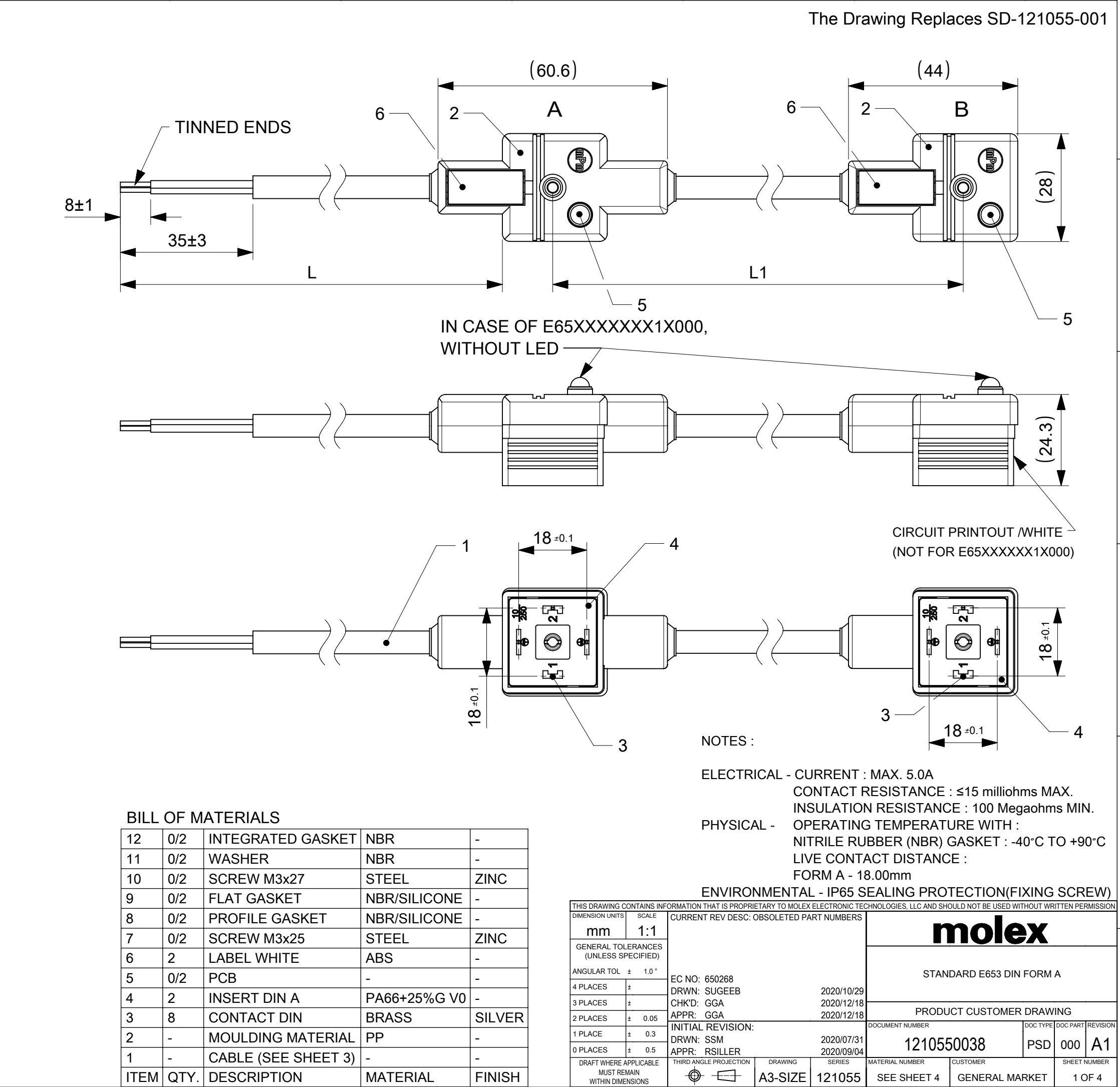
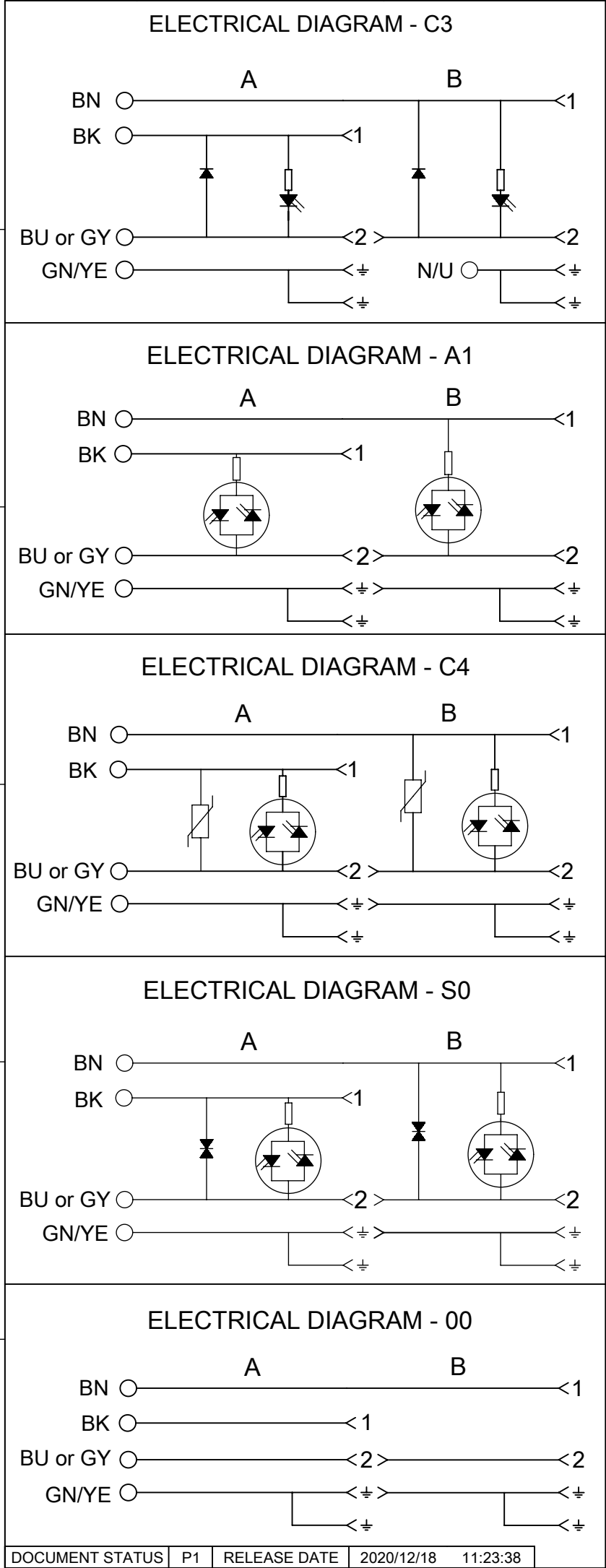




ENGINEERING No. MATRIX

E 6 5 3 X X X X X X 1 X X X X

E - Packing without bag
W - Single Packing
Q - Quick Packing

Number of Wires
2 - 2 Poles
3 - 2 Poles + Ground
A - M12 STR , B - 90°

Cable type:
See Table

Head Colour:
G - Grey
N - Black
A - CSA-UL Black
B - CSA-UL Grey

Cable Lenght
in Meters (L):
A=1
B=1.5
C=2
D=2.5
E=3
F=3.5
G=4
H=4.5
L=5
M=5.5
N=6
P=6.5
Q=7
R=7.5
S=8
T=8.5
U=9
K=10

Cable Lenght
in cm Between
2 connectors (L1)
15=15 cm
30=30 cm
1K=100 cm
min length=13 cm

Earth PIN Location:
1=6/12 - earth on 6H/12H
2=12/1 earth on 12H
6=6/1 1 earth on 6H

Internal Circuit
see Wiring Configuration

Type of Gasket and Screw:
1 = NBR Profile Gasket + Fixing Screw M3x25mm
2 = NBR Flat Gasket + Fixing Screw M3x25mm
3 = Silicone Profile Gasket + Fixing Screw M3x25mm
4 = Silicone Flat Gasket + Fixing Screw M3x25mm
P = NBR Integrated Gasket + Fixing Screw with Washer M3x27mm Assembled on Connector
R = NBR Integrated Gasket + Fixing Screw with Washer M3x27mm NOT Assembled on Connector
T = NBR Profile Gasket + Fixing Screw with Washer M3x27mm

Voltage and LED color

1= 12V
2= 24V
3= 48V
4= 115V
5= 230V
RED LED

A= 12V
B= 24V
C= 48V
D= 115V
E= 230V
GREEN LED

G= 12V
H= 24V
K= 48V
L= 115V
M= 230V
YELLOW LED

Type of Screws and Gaskets

Profiled Gasket

Flat Gasket

Integrated Gasket

Screw M3x25

Screw M3x27 + Washer

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DIMENSION UNITS	SCALE
mm	1:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.05
1 PLACE	± 0.3
0 PLACES	± 0.5
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

CURRENT REV DESC: OBSOLETE PART NUMBERS

EC NO: 650268
DRWN: SUGEEB
CHK'D: GGA
APPR: GGA

2020/10/29
2020/12/18
2020/12/18

INITIAL REVISION:
DRWN: SSM
APPR: RSILLER

2020/07/31
2020/09/04

moLEX

STANDARD E653 DIN FORM A

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1210550038

DOC TYPE

PSD

DOC PART

000

REVISION

A1

MATERIAL NUMBER

SEE SHEET 4

CUSTOMER

GENERAL MARKET

SHEET NUMBER

2 OF 4

THIRD ANGLE PROJECTION

DRAWING

A3-SIZE

SERIES

121055

DATE: 2020/01/14

FORMAT: master-B-prod-A3

REVISION: J

TABLE 1 - CABLES

mPm	Code	Wires	Cross Section	Material	Colour	Diameter $\varnothing$
I	0	3	1 mm ²	PVC CEI 2022 II O.R.	Grey RAL7035	6.4±0.2 mm
A	2	2	20 AWG	PVC CSA/UL 2661	Black	5.4±0.2 mm
A	2	3	20 AWG	PVC CSA/UL 2661	Black	5.6±0.2 mm
A	2	4	20 AWG	PVC CSA/UL 2661	Black	6.2±0.25 mm
A	2	5	20 AWG	PVC CSA/UL 2661	Black	7±0.2 mm
B	2	2	20 AWG	PUR CSA/UL 20668	Black	5.6±0.2 mm
B	2	3	20 AWG	PUR CSA/UL 20668	Black	5.6±0.2 mm
B	2	4	20 AWG	PUR CSA/UL 20668	Black	6.2±0.2 mm
B	2	5	20 AWG	PUR CSA/UL 20668	Black	7±0.2 mm
D	2	3	0.5 mm ²	PVC TI2 CEI 20-20	Grey	5.5±0.2 mm
F	2	3	0.5 mm ²	CNEOMO	Grey RAL7000	5.5±0.2 mm
I	2	2	0.5 mm ²	PVC CEI 2022 II O.R.	Grey RAL7035	5.5+0.3/-0 mm
I	2	3	0.5 mm ²	PVC CEI 2022 II O.R.	Grey RAL7035	5.5+0.3/-0 mm
I	2	4	0.5 mm ²	PVC CEI 2022 II O.R.	Grey RAL7035	6.5±0.2 mm
I	2	5	0.5 mm ²	PVC CEI 2022 II O.R.	Grey RAL7035	7±0.2 mm
N	2	2	0.5 mm ²	PVCH03	Black	5.2±0.2 mm
N	2	3	0.5 mm ²	PVCH03	Black	5.5±0.2 mm
N	2	4	0.5 mm ²	PVCH03	Black	6.9 mm max
P	2	2	0.5 mm ²	PUR-BLEND	Black	5.5±0.2 mm
P	2	3	0.5 mm ²	PUR-BLEND	Black	5.5+0.3/-0 mm
P	2	4	0.5 mm ²	PUR-BLEND	Black	6.5±0.2 mm
P	2	5	0.5 mm ²	PUR-BLEND	Black	7+0.3/-0.1 mm
A	3	2	18 AWG	PVC CSA/UL 2661	Black	6.5±0.25 mm
A	3	3	18 AWG	PVC CSA/UL 2661	Black	6.5±0.25 mm
A	3	4	18 AWG	PVC CSA/UL 2661	Black	7±0.3 mm
A	3	5	18 AWG	PVC CSA/UL 2661	Black	7.8±0.25 mm
B	3	2	18 AWG	PUR CSA/UL 20668	Black	6.8±0.2 mm
B	3	3	18 AWG	PUR CSA/UL 20668	Black	6.5±0.2 mm
B	3	4	18 AWG	PUR CSA/UL 20668	Black	7±0.2 mm
B	3	5	18 AWG	PUR CSA/UL 20668	Black	7.8±0.2 mm
D	3	3	0.75 mm ²	PVC TI2 CEI 20-20	Grey	6.5±0.2 mm
D	3	4	0.75 mm ²	PVC TI2 CEI 20-20	Grey	7.1±0.2 mm
I	3	2	0.75 mm ²	PVC CEI 2022 II O.R.	Grey RAL7001	5.5±0.2 mm
I	3	3	0.75 mm ²	PVC CEI 2022 II O.R.	Grey RAL7035	6±0.2 mm
I	3	4	0.75 mm ²	PVC CEI 2022 II O.R.	Grey RAL7035	7±0.2 mm
N	3	2	0.75 mm ²	PVCH05	Black	6.2±0.2 mm
N	3	3	0.75 mm ²	PVCH05	Black	6.5±0.2 mm
N	3	4	0.75 mm ²	PVCH05	Black	7.1±0.2 mm
N	3	5	0.75 mm ²	PVCH05	Black	8.0+0.2/-0 mm
P	3	2	0.75 mm ²	PUR-BLEND	Black	6.5±0.2 mm

mPm	Code	Wires	Cross Section	Material	Colour	Diameter $\varnothing$
P	3	3	0.75 mm ²	PUR-BLEND	Black	6.5±0.2 mm
P	3	4	0.75 mm ²	PUR-BLEND	Black	7±0.2 mm
R	3	3	0.75 mm ²	TPR HAL. FREE	Black	6.5±0.2 mm
T	3	3	0.75 mm ²	PUR CSA/UL	Yellow	6.5±0.2 mm
Y	3	3	0.75 mm ²	SIL/0300	Red	6.5±0.2 mm
F	4	3	1 mm ²	CNEOMO	Grey RAL7000	7.1+0.2/-0 mm
F	4	4	1 mm ²	CNEOMO	Grey RAL7000	7.1+0.2/-0 mm
I	4	2	1 mm ²	PVC CEI 2022 II O.R.	Grey RAL7035	7.1+0.2/-0 mm
I	4	3	1 mm ²	PVC CEI 2022 II O.R.	Grey RAL7035	7.1+0.2/-0 mm
N	4	2	1 mm ²	PVCH05	Black	6.5±0.2 mm
N	4	3	1 mm ²	PVCH05	Black	6.9±0.2 mm
R	4	3	1 mm ²	TPR HAL. FREE	Black	7.1±0.2 mm
N	5	3	1.5 mm ²	PVCH05	Black	8.3+0.2/-0 mm
I	6	2	0.35 mm ²	PVC CEI 2022 II O.R.	Grey RAL7035	4.8±0.2 mm
A	7	3	20 AWG	PVC CSA/UL 2661	Yellow	5.6±0.2 mm
I	9	4	0.75 mm ²	PVC CEI 2022 II O.R.	Grey RAL7035	7.3±0.2 mm

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3 PLACES	±
2 PLACES	± 0.05
1 PLACE	± 0.3
0 PLACES	± 0.5
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
THIRD ANGLE PROJECTION	
DRAWING	
SERIES	
MATERIAL NUMBER	
CUSTOMER	
SHEET NUMBER	

CURRENT REV DESC: OBSOLETE

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INITIAL REVISION:

DRWN: SSM

APPR: RSILLER

2020/10/29

2020/12/18

2020/12/18

2020/07/31

2020/09/04

STANDARD E653 DIN FORM A

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1210550038

DOC TYPE

PSD

DOC PART

000

REVISION

A1

A3-SIZE

121055

SEE SHEET 4

GENERAL MARKET

3 OF 4

