

ABB ELECTRIFICATION INSTALLATION PRODUCTS

“OCAL Conduits, Elbows, and Nipples” Recycling Instructions

COND2 – G and ELL6 SA-G



PREPARED 2024-08-07 Grayson Gardner	STATUS Approved	SECURITY LEVEL Public		
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1. Product Description

Ocal® PVC-coated conduit and fittings represent a complete corrosion protection package for your entire conduit system.

- Ocal is among the industry leaders offering thread protection through a hot-dipped galvanizing process, and industry-leading PVC-coated conduit bodies.
- Ocal offers a full undisturbed zinc coating under the PVC coating.

Variants

- Material Variation: Steel and Aluminum
- Part Variation: Conduit, Elbow, Nipple

STATUS	SECURITY LEVEL	DOCUMENT ID.	REV.	LANG.	PAGE
Approved	Public	PL-087 Ocal	A	en	2/7

2. Explosion Diagram

2-inch Diameter Steel OCAL Conduit 10ft: COND2 -G



PVC coated conduit



**Solvent Soaking
And PVC Peeling Step**



Galvanized conduit

3. Dismantling Instructions

- Remove the conduit from the installation site
- A suitable organic solvent such as Acetone or MEK is used to remove the PVC jacket from the metal substrate.
 - o Make longitudinal incisions across the length of the PVC jacket
 - o Allow the conduit to soak in the solvent for 2 to 3 hours
 - o After 2 to 3 hours of soaking in the solvent the PVC should be able to be peeled off
- Process remains the same for nipple components

STATUS	SECURITY LEVEL	DOCUMENT ID.	REV.	LANG.	PAGE
Approved	Public	PL-087 OCAL	A	en	3/7

4. Weight of main recyclable materials for a Steel Conduit

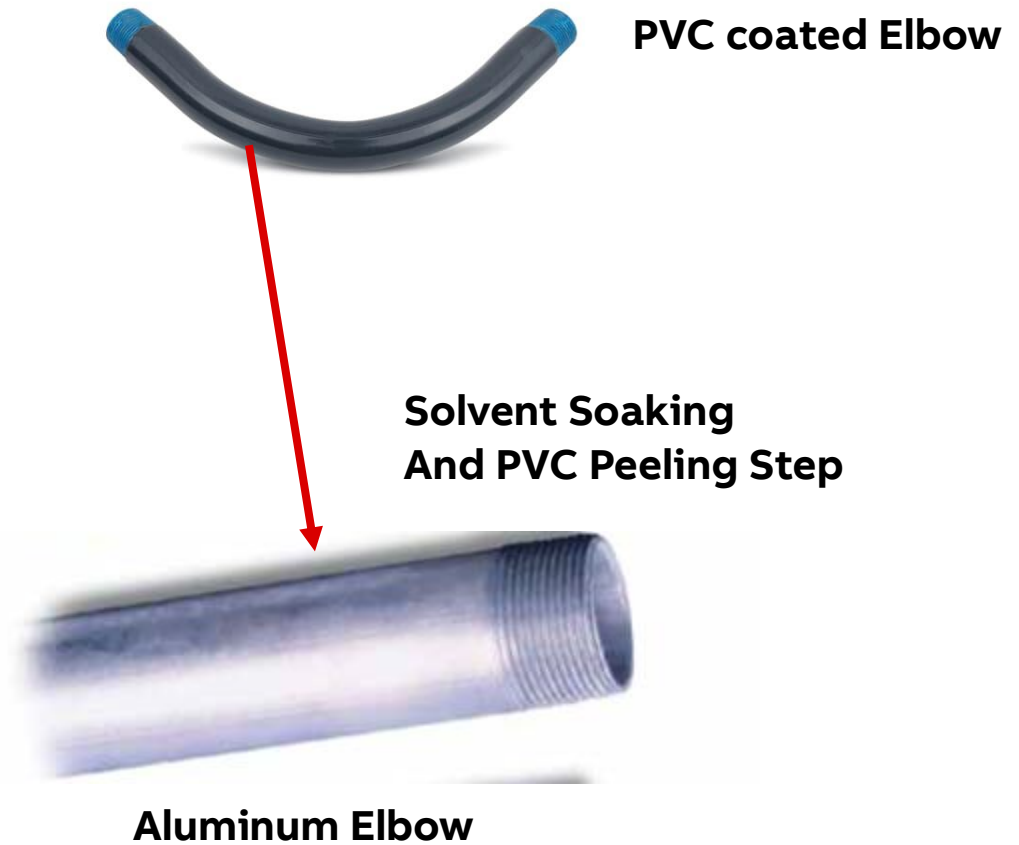
Part no	Material	Weight in kg	Percentage of total weight	Recyclable
1	Galvanized Pipe	17.6	93.0%	Yes
2	Thread Protector	0.016	0.08%	Yes
3	PVC	1.23	6.50%	No
4	Blue Urethane	0.0102	0.05%	No
5	Liquid Primer	0.0602	0.32%	No
6	Paint	0.0089	0.05%	No

*Note: This is a 2-inch conduit BOM. The percentage of total weight will be similar for all conduits and nipples.

STATUS Approved	SECURITY LEVEL Public	DOCUMENT ID. PL-087 OCAL	REV. A	LANG. en	PAGE 4/7
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5. Explosion Diagram

6-inch Diameter Aluminium OCAL Elbow: ELL6 SA-G



6. Dismantling Instructions

- Remove the elbow from the installation site
- A suitable organic solvent such as Acetone or MEK is used to remove the PVC jacket from the metal substrate.
 - o Make longitudinal incisions across the length of the PVC jacket
 - o Allow the conduit to soak in the solvent for 2 to 3 hours
 - o After 2 to 3 hours of soaking in the solvent the PVC should be able to be peeled off

STATUS	SECURITY LEVEL	DOCUMENT ID.	REV.	LANG.	PAGE
Approved	Public	PL-087 OCAL	A	en	5/7

7. Weight of main recyclable materials for an Aluminum Elbow

Part no	Material	Weight in kg	Percentage of total weight	Recyclable
1	Aluminum	18.3	88.92%	Yes
2	Thread Protector	0.182	0.88%	Yes
3	Liquid PVC	1.88	9.14%	No
4	Blue Urethane	0.0189	0.09%	No
5	Liquid Primer	0.173	0.84%	No
6	Paint	0.025	0.12%	No

*Note: This is a 6-inch elbow BOM. The percentage of total weight will be similar for all elbows.

8. Presence of Critical Raw Materials

- Copper
- Tungsten
- Cobalt
- Nickel – battery grade
- Magnesium metal
- Platinum group metals; including iridium, palladium, platinum, rhodium and ruthenium
- Manganese – battery grade
- Natural graphite – battery grade
- Germanium
- Boron – metallurgy grade
- Rare earth elements for magnets; including neodymium, praseodymium, terbium, dysprosium, gadolinium, samarium and cerium
- Titanium metal
- Bismuth
- Gallium
- Lithium – battery grade
- Silicon metal
- No critical raw materials

STATUS Approved	SECURITY LEVEL Public	DOCUMENT ID. PL-087 OCAL	REV. A	LANG. en	PAGE 6/7
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9. Recycling Instructions

The OCAL conduits, elbows, and nipples are all coated in PVC. After the PVC coating is removed by the disassembly instructions the aluminum and galvanized steel can be reused or recycled.

The thread protectors can be recycled upon installation of the OCAL conduit, nipple, and elbows.

10. Disposal Instructions

No hazardous materials are in the OCAL product line, so they are safe to dispose of per local, state, and federal regulations.

STATUS	SECURITY LEVEL	DOCUMENT ID.	REV.	LANG.	PAGE
Approved	Public	PL-087 OCAL	A	en	7/7