



Industrial Switchgear

Plugs and Sockets



Make the right choice

Don't judge industrial switchgear by its colour

- Technical Guide

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Life Is 

CLIPSAL
by Schneider Electric

Technical Guide

Chemical Resistance Guide					
Chemical type	All Mounting Enclosures	Grey (GY) Transparent Covers	Resistant Orange (RO) Resistant White (RW) Covers	Chemical Grey (CG) Covers	Plugs
Acids					
Hydrochloric 10%	R	R	R	R	R
Nitric 10%	R	LR	R	R	LR
Acetic acid 10%	R	R	R	LR	LR
Sulphuric 100%	R	LR	R	LR	LR
Alkalis					
Sodium hydroxide 10% (Caustic soda)	R	NR	LR	R	LR
Potassium hydroxide 100%	LR	NR	NR	R	LR
Sanitising solutions					
Chlorinated alkaline foaming cleaner 10%	R	NR	NR	R	LR
Ammonium sanitiser	R	NR	NR	R	LR
Vegetable oils					
Olive oil	R	NR	NR	R	LR
Canola oil	R	NR	NR	R	LR
Solvents					
Methane	LR	R	R	-	R
Propane	R	R	R	-	R
Ethylene glycol	R	R	R	-	R
Glycerol (Glycerine)	R	LR	LR	R	R
Methyl alcohol (Methanol)	R	R	R	LR	R
Ethyl alcohol (Ethanol)	R	R	R	NR	R
Aniline	NR	NR	NR	NR	LR
Methyl benzene	NR	NR	LR	NR	LR
Xylene	NR	NR	LR	NR	LR
Dimethyl ethyl	R	R	R	-	R
Acetone	R	LR	LR	LR	LR
Acetophenone	NR	NR	LR	NR	LR
Ethyl methyl ketone	NR	NR	LR	NR	R
Isopropyl Alcohol	-	R	R	NR	R

Chemical Resistance Guide					
Chemical type	All Mounting Enclosures	Grey (GY) Transparent Covers	Resistant Orange (RO) Resistant White (RW) Covers	Chemical Grey (CG) Covers	Plugs
Automotive					
Unleaded Petroleum	R	NR	NR	R	LR
Diesel	-	R	R	NR	LR
Brake Fluid	-	NR	NR	NR	LR
Grease at 60 °C (Rocol 12475)	-	LR	LR	-	-
Grease at 60°C (Rocol Sapphire Hi Temp)	-	LR	LR	-	-
Lubricating oil (10w/40)	-	-	-	-	R
Hydraulic oil (Hf-105L)	-	-	-	-	R
Oxidising agents					
Sodium hypochlorite 5%	R	R	R	R	LR
Hydrogen peroxide 30%	R	R	R	R	LR
Water					
Ambient	R	R	R	R	R
Hot > 60 °C	R	R	R	R	LR
Miscellaneous					
Detergent @ 50 °C	R	LR	NR	R	LR
Magnesium sulphate	R	R	R	-	R
Salts					
Calcium Chloride 10%	R	R	R	R	LR
Sodium Chloride 5%	R	R	R	R	R
Ammonium Hydroxide 100%	R	R	R	R	R

This table should be used as a guide only. The end user should evaluate the suitability of any chemical with any plastic.

Resistant  Limited Resistance  Not Resistant 

When products are required to use in environments with high concentrations of acids, bases, or oils, it is recommended to contact your local Schneider Electric office for support.

Technical Guide

Industrial Application Matrix

 Retail and wholesale trade buildings			
Supermarket (Coles, Woolies etc)	<ul style="list-style-type: none"> Plant Rooms Pedestrian Traffic Areas Staff Lunchroom Cool Room For Perishable Storage 	<ul style="list-style-type: none"> Staff Or Public Car Park Toilets / Wet Areas Office Food Preparation Area / Kitchen 	<ul style="list-style-type: none"> Rooftop Plant Platforms Outdoor Lighting Public Eating Area
Department Store	<ul style="list-style-type: none"> Plant Rooms Pedestrian Traffic Areas Staff Lunchroom Public Eating Area 	<ul style="list-style-type: none"> Warehouse Staff Or Public Car Park Toilets / Wet Areas 	<ul style="list-style-type: none"> Office Outdoor Lighting Rooftop Plant Platforms
Shopping Centre	<ul style="list-style-type: none"> Plant Rooms Pedestrian Traffic Areas Staff Lunchroom Public Eating Area 	<ul style="list-style-type: none"> Staff or Public Car Park Toilets / Wet Areas Office 	<ul style="list-style-type: none"> Food Preparation Area / Kitchen Rooftop Plant Platforms Outdoor Lighting
Outdoor Mall	<ul style="list-style-type: none"> Plant Rooms Pedestrian Traffic Areas Staff Lunchroom 	<ul style="list-style-type: none"> Public Eating Area Staff Or Public Car Park Toilets / Wet Areas 	<ul style="list-style-type: none"> Office Outdoor Lighting Rooftop Plant Platforms
Fast Food Outlet (McD's, KFC, Chicken / Fish & Chip, etc)	<ul style="list-style-type: none"> Public Eating Area Cool Room for Perishable Storage Exposure to Detergents Exposure to Acids / Citrus Based Cleaners 	<ul style="list-style-type: none"> Exposure to Cooking Oil Staff or Public Car Park Toilets / Wet Areas Office 	<ul style="list-style-type: none"> Food Preparation Area / Kitchen Rooftop Plant Platforms Outdoor Lighting Plant Rooms
Restaurants / Caf�es / Bakery / Commercial Kitchen / Mobile Food Vans	<ul style="list-style-type: none"> Public Eating Area Cool Room for Perishable Storage Exposure to Detergents Exposure to Acids / Citrus Based Cleaners 	<ul style="list-style-type: none"> Exposure to Cooking Oil Staff or Public Car Park Toilets / Wet Areas Office 	<ul style="list-style-type: none"> Food Preparation Area / Kitchen Rooftop Plant Platforms Outdoor Lighting Plant Rooms
Butchers	<ul style="list-style-type: none"> Pedestrian Traffic Areas Cool Room for Perishable Storage Exposure to Alkali's 	<ul style="list-style-type: none"> Toilets / Wet Areas Food Preparation Area / Kitchen Outdoor Lighting 	<ul style="list-style-type: none"> Staff Lunchroom Staff or Public Car Park Office
Car Wash	<ul style="list-style-type: none"> Plant Rooms, Pedestrian Traffic Areas Exposure to Detergents Toilets / Wet Areas 	<ul style="list-style-type: none"> Food Preparation Area / Kitchen Outdoor Lighting Staff Lunchroom 	<ul style="list-style-type: none"> Staff or Public Car Park Office Rooftop Plant Platforms
Petrol Stations / Garage	<ul style="list-style-type: none"> Maintenance Workshop Staff or Public Car Park Toilets / Wet Areas Outdoor Lighting 	<ul style="list-style-type: none"> Plant Rooms, Pedestrian Traffic Areas Staff Lunchroom Public Eating Area Exposure to Detergents 	<ul style="list-style-type: none"> Exposure to Cooking Oil Office Food Preparation Area / Kitchen Rooftop Plant Platforms
Generator or Hire Equipment (mobile fridges, scissor lifts, etc)	<ul style="list-style-type: none"> Maintenance Workshop Pedestrian Traffic Areas Staff Lunchroom Despatch / Vehicle Loading / Transport Area 	<ul style="list-style-type: none"> Staff or Public Car Park Toilets / Wet Areas Office Outdoor Lighting 	<ul style="list-style-type: none"> Plant Rooms Exposure to Detergents Rooftop Plant Platforms

Transport buildings

Transport Depot freight (road / rail / water) air	<ul style="list-style-type: none"> Staff Lunchroom Despatch / Vehicle Loading / Transport Area Staff or Public Car Park 	<ul style="list-style-type: none"> Toilets / Wet Areas Office Outdoor Lighting 	<ul style="list-style-type: none"> Maintenance Workshop Plant Rooms Rooftop Plant Platforms
Transport Depot passenger (road / rail / water) air	<ul style="list-style-type: none"> Pedestrian Traffic Areas Staff Lunchroom Despatch / Vehicle Loading / Transport Area Staff Or Public Car Park 	<ul style="list-style-type: none"> Toilets / Wet Areas Office Outdoor Lighting Plant Rooms 	<ul style="list-style-type: none"> Public Eating Area Food Preparation Area / Kitchen Rooftop Plant Platforms

Industrial Application Matrix

Marina / Jetties	<ul style="list-style-type: none"> • Pedestrian Traffic Areas • Staff or Public Car Park • Toilets / Wet Areas • Office 	<ul style="list-style-type: none"> • Boat Washdown • Outdoor Lighting • Food Preparation Area / Kitchen 	<ul style="list-style-type: none"> • Rooftop Plant Platforms • Conveyor Belt • Outdoor Bbq's
Car Parks	<ul style="list-style-type: none"> • Plant Rooms • Pedestrian Traffic Areas • Staff or Public Car Park 	<ul style="list-style-type: none"> • Office • Outdoor Lighting 	<ul style="list-style-type: none"> • Toilets / Wet Areas • Rooftop Plant Platforms



Offices

Office Buildings	<ul style="list-style-type: none"> • Staff lunchroom • Staff or public car park • Toilets / wet areas • Office 	<ul style="list-style-type: none"> • Rooftop plant platforms • Plant rooms • Pedestrian traffic areas 	
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Commercial buildings n.e.c.

Fire Station	<ul style="list-style-type: none"> • Staff lunchroom • Exposure to detergents • Staff or public car park • Toilets / wet areas 	<ul style="list-style-type: none"> • Office • Outdoor lighting • Plant rooms • Rooftop plant platforms 	
Court House	<ul style="list-style-type: none"> • Staff lunchroom • Staff or public car park • Toilets / wet areas • Office 	<ul style="list-style-type: none"> • Outdoor lighting • Plant rooms • Rooftop plant platforms 	
Police station / Gaols / Detention centres	<ul style="list-style-type: none"> • Staff lunchroom • Staff or public car park • Toilets / wet areas 	<ul style="list-style-type: none"> • Office • Outdoor lighting • Plant rooms 	<ul style="list-style-type: none"> • Exposure to detergents • Food preparation area / kitchen • Rooftop plant platforms



Factories and other secondary production buildings

Assembly Plant (CHCH, GX etc)	<ul style="list-style-type: none"> • Staff lunchroom • Warehouse • Assembly plant / fabrication area • despatch / vehicle loading / transport area 	<ul style="list-style-type: none"> • Staff or public car park • Toilets / wet areas • Office • Rooftop plant platforms 	<ul style="list-style-type: none"> • Tool room or general fabrication workshop • Plant rooms • Cool room for perishable storage • Conveyor belt
Dairy / Abattoir / Food (Inghams, Fonterra, Thomas Foods etc)	<ul style="list-style-type: none"> • Plant rooms • Staff lunchroom • Cool room for perishable storage • Warehouse • Exposure to alkali's 	<ul style="list-style-type: none"> • Exposure to detergents • Despatch / vehicle loading / transport area • Staff or public car park • Toilets / wet areas 	<ul style="list-style-type: none"> • Office • Rooftop plant platforms • Maintenance workshop • Conveyor belt
Foundry (Glass producer, cast metal production)	<ul style="list-style-type: none"> • Staff lunchroom • Warehouse • Minerals processing / furnaces • despatch / vehicle loading / transport area • Staff or public car park 	<ul style="list-style-type: none"> • Toilets / wet areas • Office • Tool room or general fabrication workshop 	<ul style="list-style-type: none"> • Plant rooms • Rooftop plant platforms • Conveyor belt
Chemical Plant	<ul style="list-style-type: none"> • Plant rooms • Staff lunchroom • Warehouse • Despatch / vehicle loading / transport area • staff or public car park • Toilets / wet areas 	<ul style="list-style-type: none"> • Office • Maintenance workshop • Tool room or general fabrication workshop • Exposure to alkali's • Exposure to detergents 	<ul style="list-style-type: none"> • Exposure to acids / citrus based cleaners • Minerals processing / furnaces • Outdoor storage tanks / ponds / silos • Rooftop plant platforms • Bottling plant • Conveyor belt

Industrial Application Matrix

Minerals processing (mining site or secondary production plant)	<ul style="list-style-type: none"> Plant rooms Staff lunchroom Warehouse Minerals processing / furnaces Despatch / vehicle loading / transport area Staff or public car park Toilets / wet areas 	<ul style="list-style-type: none"> Office Maintenance workshop Tool room or general fabrication workshop Cool room for perishable storage Exposure to alkali's Exposure to detergents 	<ul style="list-style-type: none"> Exposure to acids / citrus based cleaners Outdoor storage tanks / ponds / silos Rooftop plant platforms Bottling plant Conveyor belt
General Fabricator	<ul style="list-style-type: none"> Maintenance workshop Tool room or general fabrication workshop Staff lunchroom Staff or public car park Toilets / wet areas 	<ul style="list-style-type: none"> Office Plant rooms Warehouse Assembly plant / fabrication area Exposure to detergents 	<ul style="list-style-type: none"> Exposure to acids / citrus based cleaners Despatch / vehicle loading / transport area Rooftop plant platforms
Winery, Brewery, Distillery	<ul style="list-style-type: none"> Staff lunchroom Cool room for perishable storage Warehouse Outdoor storage tanks / ponds / silos Despatch / vehicle loading / transport area Staff or public car park Toilets / wet areas 	<ul style="list-style-type: none"> Office Bottling plant Maintenance workshop Plant rooms Pedestrian traffic areas Public eating area Exposure to detergents 	<ul style="list-style-type: none"> Exposure to acids / citrus based cleaners Bottle / vat sterilising Food preparation area / kitchen Rooftop plant platforms Conveyor belt
Cabinet Maker / Spray Painter	<ul style="list-style-type: none"> Maintenance workshop Staff lunchroom Staff or public car park Toilets / wet areas Office 	<ul style="list-style-type: none"> Assembly plant / fabrication area Despatch / vehicle loading / transport area Rooftop plant platforms 	
Motor / Rail body builder	<ul style="list-style-type: none"> Maintenance workshop Staff lunchroom Staff or public car park Toilets / wet areas 	<ul style="list-style-type: none"> Office Tool room or general fabrication workshop Plant rooms 	<ul style="list-style-type: none"> Assembly plant / fabrication area Despatch / vehicle loading / transport area Rooftop plant platforms



Warehouses / Distribution Centres

Refrigerated Storage (Perishables such as food & beverage)	<ul style="list-style-type: none"> Plant rooms Staff lunchroom Cool room for perishable storage Despatch / vehicle loading / transport area 	<ul style="list-style-type: none"> Staff or public car park Toilets / wet areas Office Maintenance workshop 	<ul style="list-style-type: none"> Tool room or general fabrication workshop Warehouse Rooftop plant platforms
General Storage (non-perishable items)	<ul style="list-style-type: none"> Staff lunchroom Despatch / vehicle loading / transport area Staff or public car park Toilets / wet areas 	<ul style="list-style-type: none"> Office Maintenance workshop Tool room or general fabrication workshop 	<ul style="list-style-type: none"> Plant rooms Cool room for perishable storage Warehouse Rooftop plant platforms



Agricultural and aquacultural buildings

Farm Out Buildings (Barns, shearing sheds etc)	<ul style="list-style-type: none"> Maintenance workshop 		
Primary production (milking shed)	<ul style="list-style-type: none"> Despatch / vehicle loading / transport area Office Maintenance workshop Plant rooms Cool room for perishable storage 	<ul style="list-style-type: none"> Exposure to alkali's Exposure to detergents Outdoor storage tanks / ponds / silos Staff or public car park Toilets / wet areas 	
Aquaculture / Fish Farms	<ul style="list-style-type: none"> Staff lunchroom Warehouse Minerals processing / furnaces despatch / vehicle loading / transport area Staff or public car park 	<ul style="list-style-type: none"> Toilets / wet areas Office Tool room or general fabrication workshop 	<ul style="list-style-type: none"> Plant rooms Rooftop plant platforms Conveyor belt
Wheat Silo / Storage	<ul style="list-style-type: none"> Plant rooms Staff lunchroom Warehouse Despatch / vehicle loading / transport area staff or public car park Toilets / wet areas 	<ul style="list-style-type: none"> Office Maintenance workshop Tool room or general fabrication workshop Exposure to alkali's Exposure to detergents 	<ul style="list-style-type: none"> Exposure to acids / citrus based cleaners Minerals processing / furnaces Outdoor storage tanks / ponds / silos Rooftop plant platforms Bottling plant Conveyor belt

Industrial Application Matrix

 Other industrial buildings n.e.c.			
Electrical generation	<ul style="list-style-type: none"> Maintenance workshop Staff lunchroom Staff or public car park Toilets / wet areas 	<ul style="list-style-type: none"> Office Tool room or general fabrication workshop Plant rooms 	<ul style="list-style-type: none"> Rooftop plant platforms Outdoor lighting
Water Treatment (reservoir etc)	<ul style="list-style-type: none"> Maintenance workshop Staff lunchroom Outdoor storage tanks / ponds / silos Staff or public car park Toilets / wet areas 	<ul style="list-style-type: none"> Office Tool room or general fabrication workshop Plant rooms Pedestrian traffic areas 	<ul style="list-style-type: none"> Exposure to detergents Exposure to acids / citrus based cleaners Rooftop plant platforms Outdoor lighting
Waste Water Treatment	<ul style="list-style-type: none"> Maintenance workshop Staff lunchroom Outdoor storage tanks / ponds / silos Staff or public car park Toilets / wet areas 	<ul style="list-style-type: none"> Office Tool room or general fabrication workshop Plant rooms Pedestrian traffic areas 	<ul style="list-style-type: none"> Exposure to detergents Exposure to acids / citrus based cleaners Rooftop plant platforms Outdoor lighting

 Education buildings			
School / University	<ul style="list-style-type: none"> Pedestrian traffic areas Staff lunchroom Public eating area Cool room for perishable storage Warehouse 	<ul style="list-style-type: none"> Staff or public car park Toilets / wet areas Office Food preparation area / kitchen Rooftop plant platforms 	<ul style="list-style-type: none"> Maintenance workshop Plant rooms Exposure to cooking oil Swimming pool / growing pond Outdoor lighting
Boarding / Accomodation	<ul style="list-style-type: none"> Pedestrian traffic areas Staff lunchroom Public eating area Cool room for perishable storage 	<ul style="list-style-type: none"> Staff or public car park Toilets / wet areas Office Food preparation area / kitchen 	<ul style="list-style-type: none"> Rooftop plant platforms Plant rooms Swimming pool / growing pond Outdoor lighting

 Religion buildings			
Places of Worship (churches etc)	<ul style="list-style-type: none"> Pedestrian traffic areas Staff or public car park Toilets / wet areas Public eating area 	<ul style="list-style-type: none"> Cool room for perishable storage Exposure to cooking oil Office Food preparation area / kitchen 	<ul style="list-style-type: none"> Rooftop plant platforms Outdoor lighting

 Aged care facilities			
Aged Care / Nursing Home	<ul style="list-style-type: none"> Pedestrian traffic areas Staff lunchroom Public eating area Cool room for perishable storage Staff or public car park 	<ul style="list-style-type: none"> Toilets / wet areas Office Food preparation area / kitchen Maintenance workshop 	<ul style="list-style-type: none"> Plant rooms Exposure to cooking oil Swimming pool / growing pond Outdoor lighting

 Health buildings			
Hospital	<ul style="list-style-type: none"> Maintenance workshop Plant rooms Pedestrian traffic areas Staff lunchroom Public eating area 	<ul style="list-style-type: none"> Cool room for perishable storage Despatch / vehicle loading / transport area Staff or public car park Toilets / wet areas 	<ul style="list-style-type: none"> Office Food preparation area / kitchen Rooftop plant platforms Swimming pool / growing pond
GP Clinic / Dentist	<ul style="list-style-type: none"> Staff lunchroom Exposure to detergents Staff or public car park 	<ul style="list-style-type: none"> Office Toilets / wet areas 	<ul style="list-style-type: none"> Cool room for perishable storage Rooftop plant platforms
Radiographer / Pathologist	<ul style="list-style-type: none"> Staff lunchroom Exposure to detergents Staff or public car park 	<ul style="list-style-type: none"> Office Toilets / wet areas 	<ul style="list-style-type: none"> Cool room for perishable storage Rooftop plant platforms
Laboratories	<ul style="list-style-type: none"> Staff lunchroom Exposure to detergents Staff or public car park 	<ul style="list-style-type: none"> Office Toilets / wet areas 	<ul style="list-style-type: none"> Cool room for perishable storage Rooftop plant platforms

Industrial Application Matrix

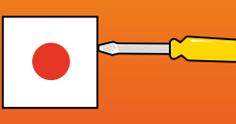
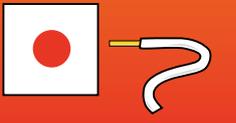
 Entertainment and recreation buildings			
Oval / Arena	<ul style="list-style-type: none"> Pedestrian traffic areas Staff lunchroom Public eating area Cool room for perishable storage Staff or public car park 	<ul style="list-style-type: none"> Toilets / wet areas Office Food preparation area / kitchen Maintenance workshop 	<ul style="list-style-type: none"> Plant rooms Exposure to cooking oil Rooftop plant platforms Outdoor lighting
Gym / Tennis Centre	<ul style="list-style-type: none"> Pedestrian traffic areas Staff lunchroom Public eating area Cool room for perishable storage Staff or public car park 	<ul style="list-style-type: none"> Toilets / wet areas Office Food preparation area / kitchen Maintenance workshop 	<ul style="list-style-type: none"> Plant rooms Exposure to cooking oil Rooftop plant platforms Outdoor lighting
Entertainment Centre / Theater / Cinema	<ul style="list-style-type: none"> Pedestrian traffic areas Staff lunchroom Public eating area Cool room for perishable storage Staff or public car park 	<ul style="list-style-type: none"> Toilets / wet areas Office Food preparation area / kitchen Maintenance workshop 	<ul style="list-style-type: none"> Plant rooms Exposure to cooking oil Rooftop plant platforms Outdoor lighting
Aquatic centre (swimming pools, aquariums etc)	<ul style="list-style-type: none"> Pedestrian traffic areas Staff lunchroom Public eating area Cool room for perishable storage Staff or public car park 	<ul style="list-style-type: none"> Toilets / wet areas Office Food preparation area / kitchen Maintenance workshop 	<ul style="list-style-type: none"> Plant rooms Exposure to cooking oil Rooftop plant platforms Outdoor lighting
Libraries / Museums	<ul style="list-style-type: none"> Pedestrian traffic areas Staff lunchroom Public eating area Cool room for perishable storage Staff or public car park 	<ul style="list-style-type: none"> Toilets / wet areas Office Food preparation area / kitchen Maintenance workshop 	<ul style="list-style-type: none"> Plant rooms Exposure to cooking oil Rooftop plant platforms Outdoor lighting
Casino	<ul style="list-style-type: none"> Pedestrian traffic areas Staff lunchroom Public eating area Cool room for perishable storage Staff or public car park 	<ul style="list-style-type: none"> Toilets / wet areas Office Food preparation area / kitchen Maintenance workshop 	<ul style="list-style-type: none"> Plant rooms Exposure to cooking oil Rooftop plant platforms Outdoor lighting
Public Parks / Beaches	<ul style="list-style-type: none"> Pedestrian traffic areas Toilets / wet areas Outdoor bbq's 	<ul style="list-style-type: none"> Outdoor lighting Public eating area Staff or public car park 	

 Short term accommodation buildings			
Hotel	<ul style="list-style-type: none"> Plant rooms Pedestrian traffic areas Staff lunchroom Public eating area Cool room for perishable storage 	<ul style="list-style-type: none"> Staff or public car park Toilets / wet areas Office Food preparation area / kitchen 	<ul style="list-style-type: none"> Maintenance workshop Exposure to cooking oil Rooftop plant platforms Swimming pool / growing pond
Serviced Apartments	<ul style="list-style-type: none"> Plant rooms Pedestrian traffic areas Staff lunchroom Staff or public car park 	<ul style="list-style-type: none"> Toilets / wet areas Office Maintenance workshop Cool room for perishable storage 	<ul style="list-style-type: none"> Exposure to cooking oil Rooftop plant platforms Swimming pool / growing pond

 Other non-residential n.e.c.			
Data Centre	<ul style="list-style-type: none"> Plant rooms Staff lunchroom Staff or public car park Toilets / wet areas Office Rooftop plant platforms 		

International Protection Ratings

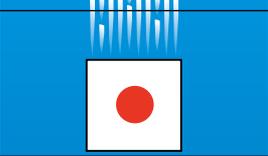
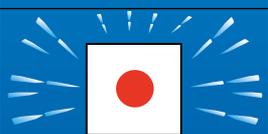
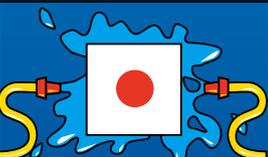
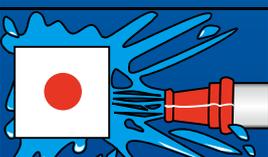
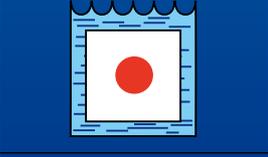
Protection against solids

	TEST	PROTECTION
x	No test applied	No specific protection
0	No test applied	Inherent degree of protection
1		Protected against solid objects equal to or greater than 50 mm diameter. (eg. accidental contact with hand)
2		Protected against solid objects equal to or greater than 12.5mm diameter. (eg. contact with finger)
3		Protected against solid objects equal to or greater than 2.5mm diameter. (eg. tools and wires)
4		Protected against solid objects equal to or greater than 1mm diameter. (eg. fine tools and wires)
5		Protected against quantities of dust that could interfere with satisfactory operation.
6		Completely protected against dust.

Defined by IEC 60529
DIN 40050 CEI 70-1

To Australian standards AS 60529-2004
Degrees of protection provided by enclosures.
(IP Code)

Protection against liquids

	TEST	PROTECTION
x	No test applied	No specific protection
0	No test applied	Inherent degree of protection
1		Protected against drops of water falling vertically.
2		Protected against drops of water falling at up to 15 degrees from the vertical.
3		Protected against spraying water at up to 60 degrees from the vertical.
4		Protected against splashing water from all directions.
5		Protected against jets of water from all directions.
6		Protected against jets of water of similar force to heavy seas.
7		Protected against the effects of temporary immersion.
8		Protected against the effects of continuous immersion.

Defined by IEC 60529

Technical Terms

The following technical terms are brief descriptions indicating the tests involved to attain ratings. For further information refer to the standards indicated.

M-Rating (refer AS/NZS3133)

Clipsal switches and switched socket outlets are marked with an M-Rating. This indicates that these products have been tested and found suitable for switching locked rotor current.

In part, this test involves 50 operations, make and break of the nominated locked rotor current at 0.5 power factor lagging. The switch will not fail to interrupt the current or fail in any way electrically or mechanically.

AC-21 (refer AS/NZS3947)

Switching of resistive loads, including moderate overloads.

In part, this involves five make and break operations, at 1 ½ times rated current and 1.1 times rated voltage at 0.95 cos.

Additional mechanical no load and electrical endurance tests at rated current and voltage at 0.95 cos are conducted.

AC-22 (refer AS/NZS3947)

Switched of mixed resistive and inductive loads, including moderate overloads.

In part, this involves five make and break operations at three times rated current and 1.1 times rated voltage at 0.65 cos.

Additional mechanical no load and electrical endurance tests at rated current and voltage at 0.65 cos.

AC-23 (refer AS/NZS3947)

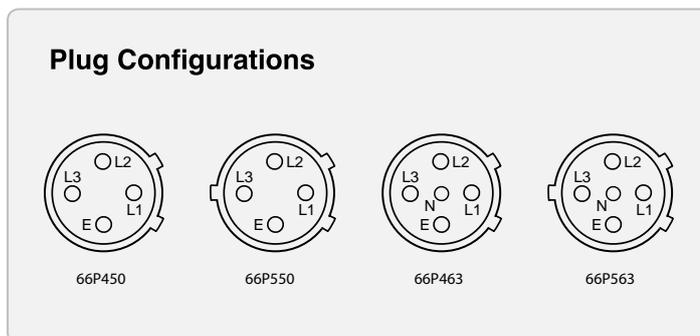
Switching of motor loads or highly inductive loads.

In part, this involves five make and break operations at:

10 times rated current make
1.1 times rated voltage make
0.35 cos

8 times rated current break
1.1 times rated voltage break
0.35 cos

Additional mechanical at no load and electrical endurance tests at rated current and voltage at 0.35 cos are conducted.



Plug and socket configuration

2 & 3 Pin



10A 250V
A



15A 250V
B



10A 250V
C



10A 110V
D



15A 32V
Polarised
E



20A 250V
F



10A 250V
G



20A 250V
H



32A 250V
I



10A 110V
J

4 Pin



10A 500V
K



20A 500V
L



16A 500V
(unique)
M



32A 500V
N



40A 500V
O



50A 500V
P



5 Pin

10A 500V
Q



20A 500V
R



32A 500V
S



40A 500V
T



50A 500V
U



6 Pin

10A 500V
V



7 Pin

10A 500V
W



20A 500V
X

2 & 3 Pin



10A 250V
A



15A 250V
B



10A 250V
C



10A 110V
D



15A 32V
Polarised
E



20A 250V
F



10A 250V
G



20A 250V
H



32A 250V
I



10A 110V
J



10A 500V
K



20A 500V
L



16A 500V
(unique)
M



32A 500V
N



40A 500V
O



50A 500V
P



10A 500V
Q



20A 500V
R



32A 500V
S



40A 500V
T



50A 500V
U



6 Pin

10A 500V
V



7 Pin

10A 500V
W



20A 500V
X

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