

CIRCUIT BREAKER



**FRESH
EDITION**



Suppliers of everything electrical.

**Plug in
to better
advice.**

Redpaths
Exclusive!

UPGRADE AND SAVE WITH THESE GREAT BULK DEALS



We've reduced the prices across the range of Philips LED lamps for a limited time. So upgrade now and save. Check in-store for details.

Conditions apply. Promotion runs from 1 August to 30 September 2017.



PHILIPS



Trade Magazine Only.

At Redpaths our focus is to the Trade.
All pricing is to account holders only
and is always excluding GST.

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Welcome to our August/September edition this month focusing on “Fresh” Ventilation, cooling, heating, temperature and flow.

Not long ago these weren't in an electricians vocabulary or of any concern. It's now a large chunk of the electrical market and with multiple choices what value does Redpaths offer in this space?

Redpaths are proud of the fact we encourage strong relationships with suppliers and manufacturers who we see offer something unique and of quality in this field. Most suppliers have a “range” but it doesn't always come down to the mighty dollar. There are longer term benefits around economics, efficiencies' and of utmost in Redpaths view, reliability and the ease of addressing any problems if they arise.

We stand by our products which sometimes is detrimental to our stock holdings and clients demanding a price pointed product over a preferred product range. It's a difficult balance which is constantly raised. Hopefully we can fill the majority of your needs.

Of course we still have some products that are price pointed but installers long term should see the benefits of not having to return to site after install as way more valuable.

Two outstanding suppliers in this field to Redpaths are Panasonic and SIMX (Manrose) and this is reflected in our large stock holdings and support for them both over a numbers of years. They are once again strongly supported in this edition and if you haven't used either range prior now's the time to “make that change” we're sure you won't be disappointed.

Regards

Brent Cameron,
Director of Operations.

**Plug in
to better
value.**

**Plug in
to better
advice.**

**Plug in
to better
service.**



You can trust our cables to be EESS compliant.

The electrical equipment safety system (EESS) makes it mandatory for manufacturers and importers to register their details and make a declaration that *all* the equipment they sell meets relevant standards and is electrically safe. As the world's leading cable manufacturer we welcome this initiative - and are happy to use the RCM mark as proof of our compliance.

EESSy as...

What does EESS stand for?

Electrical Equipment Safety System.

What is the purpose of EESS?

The purpose is to have nationally consistent, electrical equipment safety legislation throughout Australia and New Zealand that will greatly increase consumer safety.

What is different from the previous system?

There are three levels of equipment (level 3, level 2, and level 1) instead of the previous two levels (declared/prescribed and non-declared/non-prescribed). There will be a system to review classifications and re-classify to the appropriate level for verification of compliance requirements proportional to the risk of the product type. At the start of the EESS all current prescribed/declared equipment will become level 3 equipment; all non-prescribed equipment (which is in-scope) will become level 1 equipment.

Is EESS optional or compulsory?

All manufacturers and importers (who are a legal entity in Australia or New Zealand) of certain types of equipment MUST be registered prior to being offered for sale; and the level 3 products shall be independently certified.

How can you identify EESS registered equipment?

a) The EESS National Registration Database records the registration details of "Responsible Suppliers" of electrical equipment in Australia and New Zealand. *Link to the database: <https://equipment.erac.gov.au/registration>*

b) All in-scope electrical equipment offered for sale by registered Responsible Suppliers must be marked with the Regulatory Compliance Mark (RCM):



What is in-scope electrical equipment?

In-scope covers electrical equipment found in the domestic environment, and for example, it does not cover heavy industrial machinery, commercial equipment or the like.

Does EESS represent any changes in technical safety requirements?

No, however tighter evidence of conformity is required for some items.

Want to know more?

Visit the Electrical Regulatory Authorities Council (ERAC) website: www.erac.gov.au.

Prysmian New Zealand Ltd

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New Lynn 0640 Auckland, New Zealand
Ph: (09) 827 3109 Toll Free: 0800 492 225
E-mail: sales.nz@prysmiangroup.com

www.prysmiancable.co.nz



Signed, sealed, delivered.

You can trust our cables to be EESS compliant.



We're happy to tell you more:

Ph: (09) 827 3109. Toll Free: 0800 492 225

Email: sales.nz@prysmiangroup.com

www.prysmiancable.co.nz

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WORKSITE HAND PROTECTION

Let's take a look at your hands and their importance in your everyday electrical work. Could you work without one or with a serious impairment to one or both? The importance of being able to use our hands to their full ability all day, every day is often overlooked. There is the technical work like detailed cabling jobs or the cable tray installation with sharp edge issues.

Hand and wrist injuries in the commercial, service and industrial sectors are increasing

year on year, with 12,224 active claims with ACC between July 2015 and June 2016. This number is potentially a lot higher with many minor injuries being handled by on-site first aid. So how do we protect our hands to make sure we can perform all tasks safely day in and day out?

This is where Personal Protective Equipment (PPE) comes in. Under NZ Health and Safety at Work Regulations 2016 employers are required to supply their staff with the PPE equipment required to do their jobs and employees are required

by this regulation to wear or use this equipment as directed by the employer. An employer can be liable for up to \$50,000 and an employee up to \$6,000 if breaching this regulation.

Gloves are a very important part of everyday PPE but there is no one individual glove for all tasks. So how do we work out what type of glove is best for the task at hand?

All gloves have an EN 388 standards rating to make it easier for us to choose the right gloves for our needs. This is a 4 digit code printed on the glove. **R.**

**REDPATHS HAVE
YOU COVERED FOR
ALL YOUR NEEDS.**

CHECK OUT THE
OPTIONS IN BRANCH
OR ONLINE.

380 Pure Fit Nitrile
Coated for Excellent
dexterity and superior
tactile sensitivity



DexiFro for dexterity
and warmth in winter



Cut 5 Dry Grip for
cable tray installs



THE NUMBERS EXPLAINED:

PROTECTION AGAINST MECHANICAL HAZARDS IS EXPRESSED BY A PICTOGRAM FOLLOWED BY FOUR NUMBERS (PERFORMANCE LEVELS), EACH REPRESENTING TEST PERFORMANCE AGAINST A SPECIFIC HAZARD.



1: RESISTANCE TO ABRASION

Based on the number of cycles required to abrade through the sample glove (abrasion by sandpaper under a stipulated pressure). The protection factor is then indicated on a scale from 1 to 4 depending on how

many revolutions are required to make a hole in the material. The higher the number, the better the glove. See table below.



2: BLADE CUT RESISTANCE

Based on the number of cycles required to cut through the sample at a constant speed. The protection factor is then indicated on a scale from 1 to 5.



3: TEAR RESISTANCE

Based on the amount of force required to tear the sample. The protection factor is then indicated on a scale from 1 to 4.



4: PUNCTURE RESISTANCE

Based on the

amount of force required to pierce the sample with a standard sized point. The protection factor is then indicated on a scale from 1 to 4.



VOLUME RESISTIVITY

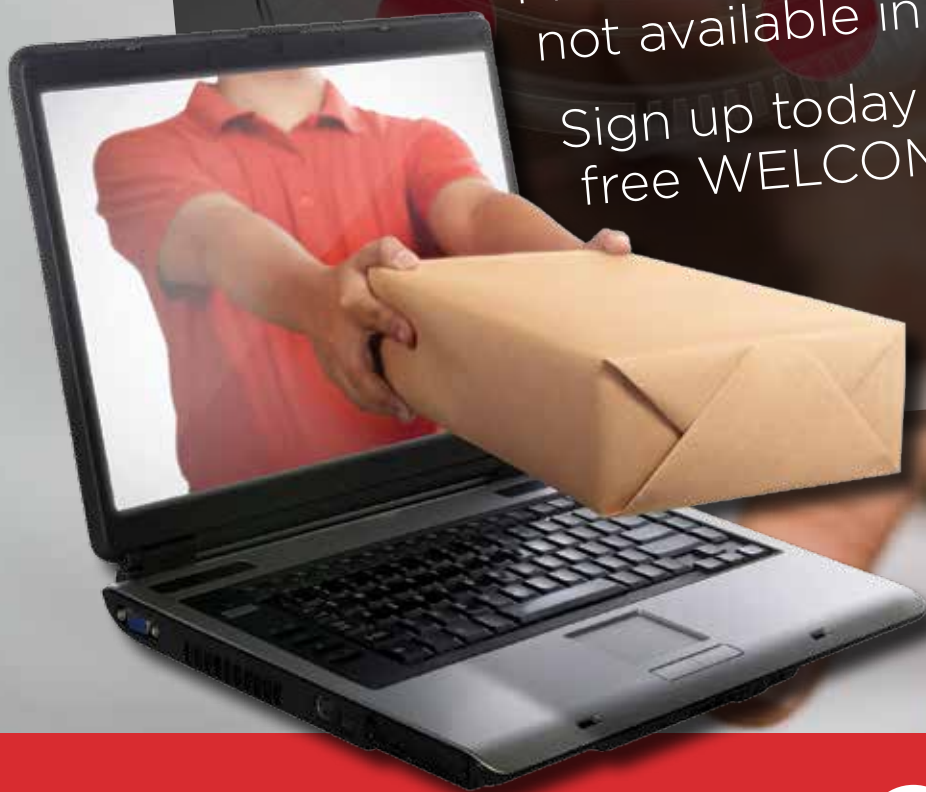
This indicates Volume resistivity, where a glove can reduce the risk of electrostatic discharge. (Pass or fail test). These pictograms only appear when the gloves have passed the relevant test. If some of the results are market with an X means that this test performance is not tested. If some of the results are market with an O means that the glove did not pass the test.

It's easy Save time Shop online

Register, login, pick your
product and it's on it's way.

Product and special pricing
not available in store.

Sign up today and get your
free WELCOME pack.



www.redpaths.co.nz/shop

R Redpaths

Suppliers of everything electrical.

Bigger range coming soon.

THE WORLD THAT LIES BENEATH OUR FEET

BY: ANDREW FOOTE, NELSON BRANCH

You may have seen strange people emerge from a field or the bush donned in muddy overalls, headlamps on and looking worse for wear and wondering where have these people been? Why are they wearing gumboots? Who are these strange unworldly people. Let me give you some insight.

Caving is the weird sport these people delve into, exploring passages and underground stream ways. Caving has a rather short but vivid history in New Zealand with many new caves being discovered every week and old caves been pushed deeper and deeper into the unknown.


This is a short brief trip I completed recently. Myself and four others Bruce, Garry, Chris and Kevin from Nelson speleological group decided a cave called Corkscrew had to be done, this is what we call a vertical cave which plummets roughly 50m into the earth down a series of pitches.

The start of the day was greeted with a beautiful white frost covering the hills. It was a race of keeping warm while getting changed into caving attire which for us is typically a pair of overalls, gumboots, climbing helmet and headlamp. For this trip specialist gear of harness decent and accent gear was also needed as well as the all important lunch.

After packing all the ropes we set across an open field to the cave entrance, the brisk 15 minute walk

was enough to get the blood flowing and defrost the frozen hands. The first pitch at the entrance of the cave was a 40m abseil followed on by numerous pitches ranging from 20m to 50m. This gave us a great chance to practice rigging and abseiling. The dark stone marble walls meant it was a very cold and drafty cave which lead to many interesting ways to keep warm something about sheep is what I recall.

It took a total of four hours to descend to the bottom of Corkscrew, upon which we had a play around in some muddy passages and ate all of the important lunch and had a cup of tea. After lunch we began climbing back up ropes using a system called jumaring, this allows us to climb up the same rope we came down. After 3.5 hours of slogging it back up, pulling up the wet heavy ropes behind us the sight of daylight shining like a lighthouse was a very welcoming sight.

After a debrief at the pub we called the trip a success with many things learnt about ourselves, our team, our gear and that the natural beauty that lies beneath our feet; that only a handful of people see, is absolutely awe inspiring. The caving community in New Zealand is small but thriving and if you show a little interest you're bound to find a trip through a local club eager to take you underground. 



WELCOME

TO REDPATHS NEW STAFF MEMBERS

MIKE TARJOMI AND GRAHAM MILLAR

Mike and Graham are heading up our very own Information and Technology Department.

They both previously worked for Code Blue and we are lucky to have their expertise.

The new tag line for the IT department is:
Have you turned it off and on?



BROOKE MULLINS

Brooke has joined us in an Inside Sales role, with Darryn's **Ferry Road Team in Christchurch**



SHERYL TUHI

Joining the team under a newly created role of Master Data Analyst at Head Office.



"From Thebes, Egypt 2196 BC to Theben from Hamer in 2017"

HAMER

Now in 2017 you can discover
one of the world's leading
range of timers and sensors
at Redpaths ... any time!

Reliable, high-performance, accurate to the second
Time switches and staircase light time switches

For use with all light sources
and with features such as zero-
cross switching or tungsten
pre-contact, Theben offers
compact self-sufficient devices
for every application from simple
time switches to astronomical
time switches with weekly
programming.

Further products such as dimming
switches can be found at
www.theben.de/en



theben
energy saving comfort

Delivering Certainty

**KLEIN
TOOLS**



FRESH IDEAS

FOR THE WINTER BUCKET LIST

GO ON A DOG SLED TOUR

Mush Mush! For something really different why not get out in amongst the beautiful Southern Alps and experience the thrill of a dog sled ride. There are a wide variety of tours available from a sled basket ride to a full overnight trip experience including driving your own team of sled dogs. Check it out here <http://www.underdognz.co.nz/>



VISIT THE GLACIERS

Have you really experienced the wonder of the Glaciers? Take a Glacier Heli Hike this winter. Starting with a thrilling flight high above the rugged terrain, land on the glacier ready to embark on a 3 hour

guided tour through the glacier, really getting into the thick of it. Plus, end the day with a warm up at the Glacier Hot Pools! <http://www.franzjosefglacier.com/our-tours/glacier-heli-hike/>

DO THE TRANZ ALPINE

Sit back, relax and enjoy the incredible beauty in our own back yard. The Tranz Alpine travels daily from Christchurch, through the stunning Southern Alps and Stopping over at Greymouth. Take a day trip or arrange a Scenic Escape overnight package. <http://www.kiwirailscenic.co.nz/tranzalpine>

DEMOLITION WORLD VILLAGE

Take a trip back in time and visit the town inside a town. Next time you are in Southland make sure to check out the Demolition World Village constructed out of Construction World's salvage treasures. Free attraction worth checking out. <http://www.demoworld.co.nz/pages/village.html>

BIKE THE OTAGO RAIL TRAIL

She's a chilly one but if you wrap up warm you'll have the adventure of a lifetime! There's a wide variety of options available from a half day trip to a full five days or more. <http://www.otagocentralrailtrail.co.nz/plan-your-trip/#distancetravel-time>



Franz Josef Glacier



Tranz Alpine



Demolition World



Otago Rail Trail

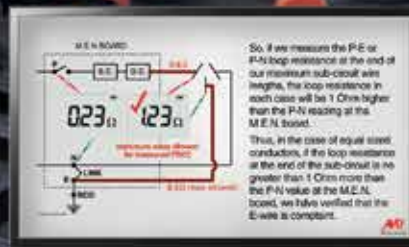
VISIT THE SOUTHERN LIGHTS

Aurora Australis (The Southern Lights) although hard to predict, are best viewed in New Zealand's winter. In order to see an aurora from New Zealand, there needs to be solar activity with strong gusts of solar winds reacting with the magnetosphere. This causes a geomagnetic storm, which tends to expand the aurora activity so that you can see it in New Zealand. Check out an Aurora Australis forecast to see if the reading is Kp5 or above. The further south you are, the more likely you are to see the unique event. To check out the Kp levels see <http://www.aurora-service.net/aurora-forecast/>

Dunedin, New Zealand

Practicing Licence Renewal Coming Up? AVO has you covered...

Free online training course now available for all MFT1800 series users



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- Free for all new and existing MFT1800 series users
- Train in where you want when you want
- Brush up before next Practicing License renewal



0800 485 990 | www.avo.co.nz/training

WET & FORGET.

MOSS, MOULD, LICHEN, BLACK FUNGI & ALGAE REMOVER

Wet & Forget® has a unique combination of biodegradable selective surfactants for moss & mould removal on absolutely any exterior surface. When diluted with water and applied, it immediately attacks that unsightly moss, mould and grime. Each time it rains, this safe, cleansing combination reactivates to help flush the moss, mould and grime without scouring the surface it has infested.

Wet & Forget® is the safest, most effective way of removing moss & mould from ANY exterior surface. When applied, it immediately attacks that unsightly moss, mould, & grime. Then Mother Nature takes over. The weathering process gently takes the decomposing material away bit by bit without scouring the surface it has infested.



NON CAUSTIC. NON ACIDIC
NO BLEACH. NO WATER BLASTING.
NO ELBOW GREASE.

- 5L CONCENTRATE MAKES UP 30L OF PRODUCT

BENEFITS OF USING WET & FORGET

NO SPECIAL EQUIPMENT NEEDED TO APPLY WET & FORGET. EASY TO MAINTAIN, AFTER THE FIRST APPLICATION ALWAYS RE-APPLY AT THE FIRST SIGN OF RECONTAMINATION.



ELIMINATES HARSH METHODS

Wet & Forget helps prevent the damage caused by the harsh scouring of scrubbing and water blasting.



NO SPECIAL EQUIPMENT

Just use Wet & Forget with a garden sprayer



RESIDUAL EFFECT

Some of the ingredient remains active if the surface is porous. This helps prevent premature recontamination.



UNLIMITED SHELF LIFE

Unlike bleach based cleaners, Wet & Forget has an unlimited shelf life.

FREE

WET & FORGET.

WITH EVERY NHP ISO BUNDLE PURCHASED

COMPLETE RANGE FOR ANY APPLICATION



NHP brings to market an extensive range of industrial control, power distribution and automation products for your industrial, commercial and domestic applications.



WET & FORGET IT PROMOTION

Be rewarded when you spend \$300 on a NHP product bundle during the months of August and September, receive a 5 litre Wet and Forget.

Promotion runs from 01/08/2017 to 30/09/2017.
Wet and Forget product valued at \$99.
Prices displayed are GST exclusive. One per invoice.

Available at your local **Redpaths** branch

REDPATHS AND NHP ELECTRICAL BIG DAY OUT! WOW WHAT AN EXPERIENCE!

LOCATED ON A SHEEP/
CATTLE STATION ON THE
EDGE OF WELLINGTON'S
REMOTE RUGGED WEST
COAST IS THIS 'BOYS AND
THEIR TOYS' DELIGHT!



DIGGER CHALLENGE

TAKE CONTROL OF A 2 TONNE
EXCAVATOR AND RACE AGAINST
THE CLOCK TO COMPLETE THE
BOOMROCK DIGGER CHALLENGE.
A REAL TEST OF HAND-EYE
COORDINATION AND THE CHANCE
LIVE OUT A CHILDHOOD FANTASY.
IT'S NOT AS EASY AS YOU'D THINK!

From racing brand new Range
Rovers and BMW's, to clay
shooting, knife throwing,
archery, golf, trying your hand on an
excavation digger, this day will blow
you away! This is a place you will try
stuff you've never done before. The
staff were friendly and extremely well
trained in all areas of their specialty.


I haven't even mentioned the lodge
- kick back here with food that you
would think had been made by a
Michelin Star chef, and enjoy great

EXTREME OFF ROADING

TEAR UP THE PADDOCKS
DURING A HURTLING TRIP ON
THIS EXTREME COWPER 4X4.
LEAVE YOUR MARK WHEN
YOU TAKE THE CONTROLS TO
PERFORM FIGURE 8'S & DONUTS.



NZ wines and full bar service. Sit on
the veranda and admire 180 degree
views of breath-taking scenery
over the blue water looking out
towards the South Island. As with
Wellington we did have wind.

To get here there is a windy, partly
gravel, road which takes no longer
than around 25 mins from Johnsonville
(all up around 45mins from the city).
It sets the scene beautifully for the
day you're about to experience! 



ARCHERY

NESTLED IN THE PEACE AND
TRANQUILLITY OF THE HILLS
BEHIND THE LODGE, ARCHERY
TESTS YOUR BOWMANSHIP.
START WITH 10 ARROWS AND
SHOOT FOR BULLSEYE.

INSTRUMENTATION & DATA
WHEN **COMMUNICATION** COUNTS
OPTIMUM PERFORMANCE
TINNED SCREENED CABLE

FIRSTRONIC FT SERIES



RoHS
COMPLIANT

**OVERALL & INDIVIDUALLY PAIRED FOIL SCREENED
& STEEL WIRE ARMoured OPTIONS 0.22MM /
0.5MM / 1.5MM 90°C 110V RMS/300V DC**

**EXTREMELY PLIABLE SPECIAL PVC SHEATH,
FLAME RETARDANT, UV STABILISED, HEAT & OIL
RESISTANT**

**TINNED STRANDED COPPER CONDUCTORS &
DRAIN WIRE**

**SUITS FIELD BUS RS232 / RS422 / RS485 &
HAZARDOUS AREA APPLICATIONS**

**AVAILABLE IN BLUE SHEATH FOR
INTRINSICALLY SAFE APPLICATIONS**

NO CUTTING FEES. NO MINIMUM ORDER



AVAILABLE THROUGH YOUR LOCAL REDPATHS BRANCH



DOES YOUR CABLE COVER COMPLY?



**DANGER ELECTRIC
CABLES BELOW**

Manufactured in New Zealand from recycled High Density Polyethylene (HDPE), TransNet Cable Cover is designed to protect the cables/pipes it is covering, with two ranges available.

AS/NZ4702-2000 PENETRATION TEST

One of the most important requirements of AS/NZ4702-2000 is that cable cover must pass a penetration test, where a specifically designed dart of known weight is dropped from a predetermined height through 125 joules of energy, representing potentially catastrophic damage to the cable cover. The cable cover passes the test only when the dart penetrates it by less than 50mm. Confusion is created with the reference to thickness of material. Cable cover to AS/NZ4702-2000 standard does not adhere to a thickness, it is determined by strength resulting from the penetration test.

WHAT MAKES TRANSNET CABLE COVER DIFFERENT

- Passes a penetration test allowing no more than 50mm penetration
- Consistently strong throughout the body of the product
- Shows manufacturer, supplier and applicable standard on the top laminate
- No contaminants
- NZ made from recycled HDPE plastic - post manufacture clean scrap plastic only
- Thinner and lighter while consistently complying with AS/NZ 4702 standard strength requirements
- Ability to manufacture custom sizes up to 500mm wide
- Every batch of AS/NZ4702-2000 compliant cable cover is tested throughout the manufacturing process to ensure it consistently complies
- Retains mechanical strength characteristics even in extreme temperatures
- Gas and Electricity specific product available
- CCASNZ available ex stock



TransNet Cable Cover undergoing a penetration test



**DANGER ELECTRIC
CABLES BELOW**



**DANGER ELECTRIC
CABLES BELOW**



**DANGER ELECTRIC
CABLES BELOW**



**DANGER ELECTRIC
CABLES BELOW**



**DANGER ELECTRIC
CABLES BELOW**



**DANGER ELECTRIC
CABLES BELOW**

3MM AND 5MM THICKNESS RANGE – NOT COMPLIANT WITH AS/NZ4702-2000 STANDARD

Cat No.	Description	Length
CC100X3X25	ROLL 100MM X 3MM	25M
CC100X5X25	ROLL 100MM X 5MM	25M
CC150X3X25	ROLL 150MM X 3MM	25M
CC150X5X2	STRIP 150MM X 5M	2M+
CC150X5X25	ROLL 150MM X 5MM	25M
CC200X3X25	ROLL 200MM X 3MM	25M
CC200X5X25	ROLL 200MM X 5MM	25M
CC300X5X25	ROLL 300MM X 5MM	25M

*Additional sizes available on request
+ Pallet lots only

MADE TO AS/NZ4702-2000 STANDARD PENETRATION TEST REQUIREMENTS

Cat No.	Description	Length
CCASNZ4702-150X1	STRIP 150MM X AS/NZ4702-2000	1M+
CCASNZ4702-150X25	ROLL 150MM X AS/NZ4702-2000	25M
CCASNZ4702-170X2	STRIP 170MM X AS/NZ4702-2000	2M+
CCASNZ4702-170X25	ROLL 170MM X AS/NZ4702-2000	25M
CCASNZ4702-200X25	ROLL 200MM X AS/NZ4702-2000	25M
CCASNZ4702-300X25	ROLL 300MM X AS/NZ4702-2000	25M
GPCASNZ4702-150X1	YELLOW GAS PIPE COVER 150MM X AS/NZ4702-2000	1M+

*Additional sizes available on request
+ Pallet lots only

ASTRON
breathing new life into plastics

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+64 9 274 3340

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www.transnet.co.nz

SlimLite V2 LED Fitting

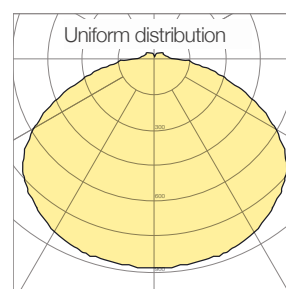
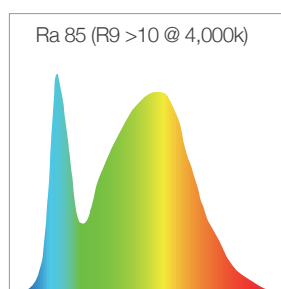


157lm/W

LED EFFICIENCY

Ra 85

AVAILABLE UPTO RA95



Slimlite V2 features clean lines and a simple aesthetic, equally at home in domestic or commercial interiors. The design minimises the outward bulk of the fitting, maximising the lens area to maintain an incredibly low profile.

Slimlite V2 eliminates glare and spotting, with a frosted lens that delivers soft, even diffusion without compromising performance.

Packaged with a five year warranty, it features a practical design, with high performance and low running costs.

**Talk to us today about how we can assist
with you lighting design requirements.**

R. Redpaths
Plug in to better advice.

FRESH AIR

BENEFITS OF A QUALITY VENTILATION SYSTEM FOR FRESH AIR

THERE'S NO DENYING THAT FRESH AIR IS ESSENTIAL TO US ALL - WE NEED IT TO SURVIVE. IN AN IDEAL WORLD WE WOULD BE OUTSIDE ALL DAY LONG BREATHING IN CLEAN, PURE AIR. UNFORTUNATELY, THIS IS NOT THE CASE. WE OFTEN HAVE TO BE INSIDE, GENERALLY WORKING AND IN POORLY VENTILATED SPACES, WHICH CAN BE DETRIMENTAL TO OUR HEALTH. IT IS IMPORTANT TO HAVE WELL-VENTILATED ROOMS AT HOME AND IN THE WORKPLACE. HERE'S WHY...

1 Impurity Control

It may be the air quality where you live isn't great, but it is often the case that the air inside is more polluted than the air outside. A good ventilation system will help expel a buildup of pollutants, bacteria, moisture, animals and nasty whiffs such as body odour.

2 Regulation

Unless you have a ventilation system in place, you have no control of the air flow in a building. Too much fresh air can mean costly energy bills and inefficiencies, which is why good ventilation makes perfect sense and balances the environment.

3 Condensation


Condensation leads to mould and rotting surfaces - something everyone wants to avoid. Damp conditions and condensation can cause health issues such as allergic reactions and respiratory problems for many people. Good ventilation reduces these risks.



4 Temperature

When lots of people are in confined space, the environment can become hot and stuffy. A well ventilated room will instantly make it more comfortable - creating comfort and productivity within the workplace.

5 Health

Indoor air pollution coupled with bad ventilation can lead to a number of health problems including headaches, allergies, asthma, rashes and sinusitis. All of which can be avoided with installation of a quality ventilation system. 

Panasonic



 **nanoe-G**

DEACTIVATES 99% OF AIRBORNE BACTERIA & VIRUS

Breathe deep, breathe fresh. The Panasonic air-conditioning unit incorporates, nanoe-G, the revolutionary air-purifying and filtering system. Using nano-technology, 3 trillion of fine particles are released by the system, which deactivate 99% of airborne bacteria and virus in the filter's indoor unit to ensure the fast cleaning of the air. It also neutralises odours to provide a more pleasant and healthy environment.

For more info visit **CleverMadeEasy.co.nz**

 **INVERTER**

 **ECONAVI**



A HEATED JACKET!

NEED WE SAY MORE...

AEG 12V Heated Jacket Kit

The AEG 12V Heated Jacket (with removable hood) is perfect to keep you warm on the work site. A water and wind resistant polyester outer shell with fleece inner collar liner provides extreme warmth and comfort. Heat permeates throughout the jacket via 3 carbon fibre heating elements with 3 adjustable temperature settings - controlled by the push of a button.

With the 2.0Ah Pro Lithium Battery there is up to 9 hours of continuous heat. The battery connector also has a built in battery fuel gauge and USB port enabling in-pocket device charging (MP3 players, mobile phones, tablets, etc.).

Available in 5 Sizes: Small, Medium, Large, Extra Large and XX Large.

NEED WIFI...

THIS GADGET HAS YOU SORTED

Netgear Orbi AC3000 Tri-band WiFi System

Meet Orbi - Fast, secure, whole home WiFi. Orbi is the world's first Tri-band WiFi system. From your front yard to your home office to your pool, Orbi gives you reliable, secure, and crazy fast WiFi to every inch of your home.

WiFi Everywhere: No more dead zones upstairs, no dropped connections through walls, just WiFi everywhere. The Orbi Home WiFi System reaches up to 4,000 square feet through WiFi barriers like walls, stairs and

doors. Need more coverage? Just add an Orbi Satellite to instantly expand your WiFi reach.

Is Orbi a Range Extender?: No! Range Extenders create multiple WiFi networks to expand your coverage. That means you need to reconnect based on where you are in your home. Orbi creates a single high speed network that gives your entire home complete coverage. Orbi dynamically optimises your connections for you without having to reconnect.



ENHANCED & ENTRANCED & READY TO DANCE

Crash Bandicoot N-Sane Trilogy

Your favourite marsupial, Crash Bandicoot, is back! He's enhanced, entranced & ready-to-dance with the N-Sane Trilogy game collection. Now you can experience Crash Bandicoot like never before in Fur-K. Spin, jump, wump and repeat as you take on the epic challenges and adventures through the three games

that started it all, Crash Bandicoot, Crash Bandicoot 2: Cortex Strikes Back and Crash Bandicoot: Warped. Relive all your favourite Crash moments in their fully-remastered HD graphical glory and get ready to put some UMPH in your WUMP!

A BLAST FROM THE PAST

RELEASE YOUR INNER CHILD

Nintendo SNES Classic Edition Console

The Nintendo Classic Mini: Super Nintendo Entertainment System contains 21 pre-installed classic games, and can easily be plugged into a high-definition TV using the included HDMI cable. For the first time, players who pick up the

system can enjoy the intergalactic adventure Star Fox 2, the sequel to the original Star Fox (originally titled Starwing) that was created during the Super Nintendo era but never released ... anywhere!





CARDMUNCH

For LinkedIn members, CardMunch connects with a transcription team to accurately transform business cards into contacts on your iPhone. Contact info includes full LinkedIn profile data, when available. It's a much better solution than any OCR (optical character recognition) tool we've seen.



TINDER

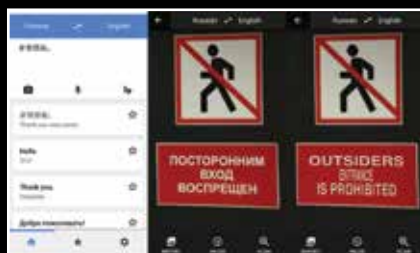
Tinder has changed the way people meet around the world. It's so much more than a dating app. Tinder is a powerful tool to meet people, expand your social group, meet locals when you're travelling and find people you otherwise never would have met. Making new connections on Tinder is easy and fun—just swipe right to like someone, or swipe left to pass. If someone likes you back, it's a match! Chat online with your matches, step away from your phone, get out and experience something new in the real world. It's that simple!



GOOGLE TRANSLATE

***FREE**

The revamped Google Translate is an astonishing app. When online, it'll translate written, photographed or spoken text between a huge range of languages. And for English to French, German, Italian, Portuguese, Russian, and Spanish (and back), the app will try to live-translate whatever's in front of your iPhone's camera — even when you're offline.



BETTER OR WORSE

THINKING ABOUT UPDATING YOUR KIT WITH SOME NEW ELECTRICAL SUPPLIES? BEFORE DIGGING INTO YOUR POCKETS, FIND OUT WHAT OUR TEAM OF PROFESSIONAL ELECTRICIANS AND INSTALLERS HAVE TO SAY AS THEY TEST AND COMPARE THE LATEST BEVY OF PRODUCTS.

THIS MONTH: **SCREWDRIVERS.**



Brand:

Felo

Trade \$113.62 +GST

Model:

scr-s413s6hd



Brand:

Wera

Trade \$147.40 +GST

Model:

WERA31800



Brand:

Wiha

Trade \$150.50 +GST

Model:

SA320NZK6



PLANNING TO INVEST IN A NEW PRODUCT. LET OUR PANEL OF PROFE

CRAIG GROUNDS

ABOUT: Grounds Electrical

YEARS IN THE GAME: 20

BEST THING ABOUT THE JOB: The variety of work

WORST THING ABOUT THE JOB: All the paperwork

HOBBIES: Hockey

LIFE CHANGING QUOTE: Just because you're offended, doesn't mean you're right!



DEREK (THE VIKING) WALSH

ABOUT: 5 foot 8 inches!

YEARS IN THE GAME: 23

BEST THING ABOUT THE JOB: Fault finding. Being in the industry

WORST THING ABOUT THE JOB: Paperwork

HOBBIES: Fishing, hunting & motorsport

LIFE CHANGING QUOTE: Hiring an electrician without eyebrows is generally a bad idea



MARK DALZELL

ABOUT: Dalco Electrical

YEARS IN THE GAME: 40+

BEST THING ABOUT THE JOB: Enjoy the challenge

WORST THING ABOUT THE JOB: Compliance paperwork

HOBBIES: Cycling

LIFE CHANGING QUOTE: Be careful who you hire



THICK INSULATION ON SHAFT WITH FLAT SECTIONS ON THE GRIP

Handle softer than I expected with the rubber grip

These surprised me with their feel, which felt nice in the hand

RATING: 8/10

NICE SET WITH QUALITY LOOK ALTHOUGH A BIT SHORT & CHUNKY

Least favourite - Handle is too soft when loaded

Set has no small Philips tip which can be a handy size to have

RATING: 5/10

GOOD LOOKING SET

These screwdrivers have a soft grip and very rarely slip in your hand

Can get good tension on the screw. Drivers wear well

RATING: 9/10

TOP PICK

THIN INSULATION OF THE SHAFTS EXCEPT THE #2 SQUARE DRIVE

Not a fan of the handle shape. It didn't feel right in the hand

Thin insulation on the shafts make it easier to insert into press to release terminals. Would take some time to get comfortable with the Kraftform handle

RATING: 7/10

NICE LOOKING SET WITH A GREAT RACK

Not enough grip. Feels cheap in the handle. Tips did feel strong

Slim line insulation is great

RATING: 7/10

EASY TO RECOGNISE AMONGST OTHER TOOLS. SEEMED TO BE SHAPED BETTER TO FIT YOUR HAND

They feel good in the hand. Can get good tension on the screw

Wall bracket comes in handy for the workshop, van etc. Screwdrivers seem to wear well

RATING: 7.5/10

THICK INSULATION ON THE SHAFTS (NOT THE SLIMFIX TYPE)

Nice smooth handle that fits well in the hand

The brand I have used for years but would prefer the thinner insulation on the shafts as the ends of the insulation get damaged over time

RATING: 9/10

TOP PICK

GREAT PROFESSIONAL LOOKING DRIVERS. HAPPY TO RECOMMEND TO OTHERS

Good hand control & great non-slip handles

The longer length shaft is a plus. Very robust

RATING: 9.5/10

TOP PICK

LOOK GOOD, APPEALING PACK

Good to use, average grip

Sometimes these screwdrivers have snapped, seem to be brittle. Sometimes won't reach certain terminals due to insulation thickness

RATING: 8/10

PROFESSIONALS GIVE YOU THE LOW DOWN. Email p.cameron@redpaths.co.nz.



THE INFAMOUS SLEDGING CUP WAS AGAIN UP FOR GRABS, THIS TIME AN OVERLY COMPETITIVE INDOOR CRICKET MATCH.


In warm up it was noted several times of “the good ole days” when we used to be handy on and off the field, those memories clearly weren’t re-discovered on the day.

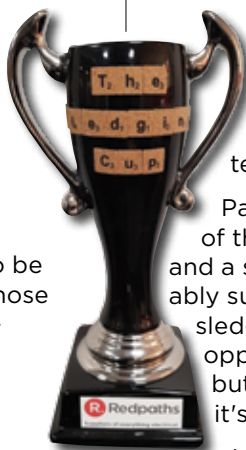
Redpaths “Master-Batters” took on the “Ball Fingerers” comprised of customers with an attitude!

Batting first the “Ball Fingerers” amassed a sizeable 111 and wickets were extremely hard to come by.

Up next the imposing “Master Batters” started strong and continued to smash into submission a deflated “Ball Fingerers” team.

Paul Veitch took out player of the day with miserly bowling and a solid batting display. He was ably supported by a team of king sledgers who broke down the opposition not only physically but mentally.... But that’s why it’s called the Sledging Cup!

Next up Indoor Soccer.... challengers beware! 



PLAYER OF THE DAY
Paul Veitch



Why are Sentech Alarms so special?



Quick easy installation



Low Battery Silence



Unique Test/Hush Button



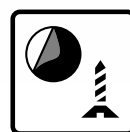
85dB@3m Alarm



End of Life Warning



10 Year Battery



Adhesive & Screw Fixings Included



5 Year Warranty



10 YEAR BATTERY

The New Zealand Fire Service recommends you install long life photoelectric type smoke alarms in your home - they may cost a little more initially but the benefits are significant.

- They provide about 10 years smoke detection.
- They remove the frustration of fixing the 'flat battery beep' at inconvenient times such as 3am in the morning.
- The cost of replacement batteries for standard alarms means the long-life one effectively pays for itself over its lifetime.
- You don't have to climb ladders every year to replace batteries.

Sentech SMOKE ALARMS
Suitable for Living rooms,
Hallways, Bedrooms &
Dining Rooms.

Sentech HEAT ALARMS
Suitable for Kitchens,
Garages, Workshops &
Laundries.

Landlords - did you know...

From 1 July 2016 smoke alarms must be installed in all residential rental properties - which means:

- Long life photoelectric smoke alarms are now required where there are no existing alarms.
- When existing smoke alarms are replaced, the replacements must be long life photoelectric smoke alarms.
- Working smoke alarms are now required in each sleeping space or within 3 metres of each bedroom door.
- In a self-contained caravan, sleep out or similar there must be a minimum of one working smoke alarm.
- In multi-story units there must be one smoke alarm on each level within the household unit.
- Landlords are responsible for making sure smoke alarms are in working order at the beginning of every new tenancy.
- Hard wired smoke alarms are also acceptable.
- All smoke alarms must be replaced in accordance with the manufacturer's recommended replacement date stated on the alarm.

www.sentech.co.nz

Sentech Micro Smoke Alarms are New Zealand building code compliant (Meets EN14604:2005). Sentech Micro Heat Alarms are Certified to EN60065:2014

SENTECH

CELEBRATING 80 YEARS

OF PDL BY SCHNEIDER ELECTRIC



– BY RAY DUNN, EXECUTIVE
GENERAL MANAGER AT SCHNEIDER
ELECTRIC – NEW ZEALAND

80 YEARS AGO, NEW ZEALAND WAS A VERY DIFFERENT COUNTRY TO THE ONE WE KNOW TODAY. IN 1937, ON THE EDGE OF THE SECOND WORLD WAR, A PLUMBING COMPANY IN CHRISTCHURCH DECIDED TO EXPAND THEIR OPERATIONS BY MAKING PLASTIC PRODUCTS WITH A HARD WORKING STAFF OF 12.

Today, PDL by Schneider Electric is known throughout New Zealand for its excellence in creating innovative electrical products and we are

proud to celebrate its 80th birthday.

Bob Stewart is a man we credit for creating the innovative culture that continues to shape PDL by Schneider Electric today. Sir Robertson as he eventually became, was knighted in 1979 for services to manufacturing and the community. He grew up inspired by technology and started his apprenticeship as an electrician at the age of 13. In 1957, after a period of working in the United Kingdom, Sir Robertson took over PDL and helped turn it into the company that has had a lasting impact on the New Zealand electrical industry.

Sir Robertson was a man who brought to life the qualities that PDL by Schneider Electric continues to stand for in 2017. He was relentless in his pursuit to provide the best quality products for his customers – PDL's motto was "Continuous quality is quality you can trust". He had worked as an electrician for many years before taking over PDL and brought with him the tradesperson's need to innovate at every stage. When I first started with the PDL business 25 years ago, I had the privilege of being introduced to Sir Robertson. During this meeting, I quickly saw that PDL was very much a business with a strong family culture.

Today, PDL by Schneider Electric continues Sir Robertson's philosophy with our innovative PDL Iconic range. PDL Iconic was developed over many years, to help keep us competitive and is based on a slim, new design platform that is easy to customise and features new ControlLink technology and Bluetooth connectivity.

PDL by Schneider Electric has always looked beyond the

borders of New Zealand. We are proud of where we come from and have always wanted to share our innovative products with the world. PDL was the first New Zealand company to establish an overseas manufacturing plant to create a wider network for our electrical products across the Pacific region that we are pleased to continue to serve.

I am proud that ours is an organisation built on relationships; the success of the business has always been built on the concept of team work. Sir Robertson was

an electrician by trade who focused on the benefits of his products on the ground with his customers. We continue in this spirit today, working closely with our contractors

who have established and continued to build key relationships with our customers across New Zealand. I've also been fortunate to be able to enjoy lots of great opportunities and experiences with customers over the years. Many of these customers have become life-long friends, and this is one of the things that I love so much about the industry in New Zealand. It is one of the key reasons why I am still with the company today.

The beginnings of PDL 80 years ago in Christchurch may have been modest, but the company's original values of innovation and pushing the boundaries continues to inspire us today. That small company in 1937 decided to expand its output into plastic fixtures and provided products that could make life easier for its customers. Today, we continue to work persistently in research and development to create products that will make homes and work environments across New Zealand more efficient and effective.

The culture at Schneider Electric is something I couldn't be more proud of. We work hard, but we also have a bit of fun along the way. I'm very thankful and grateful for the opportunities I've had so far with the PDL and Schneider Electric businesses. The PDL philosophy has always allowed employees to be hands on, allowing them to work their way up the business from any role. There are many leaders across Schneider Electric in New Zealand and throughout the world who can claim their career began at PDL.

I would also like to take this opportunity to thank all our loyal customers, distributors, and employees past and present, who have supported us throughout the years. I am honoured to still be representing the brand today, celebrating its 80th birthday with you.

Our predecessors wanted to innovate at every level and the need to create the best possible product range for customers has been etched across the company. Today at PDL by Schneider Electric, we continue to celebrate our rich heritage, but are equally keen to keep looking to the future, to continue the great work that has kept the company at the top of the game for eight decades. 

**"CONTINUOUS
QUALITY IS
QUALITY YOU
CAN TRUST"**
–PDL'S MOTTO.



CELEBRATE 80 YEARS OF PDL AND FIND THE
GOLDEN TICKET
IN ANY PDL ICONIC™ PRODUCT

AND BE IN TO
WIN
THE ULTIMATE
\$10,000
ROAD
TRIP*



Celebrating 80 years of PDL by Schneider Electric.

You and a friend could be cruising Route 66. We've hidden 5 golden tickets in the new PDL Iconic products for you to find! Simply purchase from the PDL Iconic range and you could be in to win. Visit the website for a sneak peek of where the golden tickets are.

*See online for full terms and conditions.

pdl.co.nz/80years

Life Is On



by Schneider Electric

MASTER CHEF'S

THE BATTLE OF THE WINTER WARMER SOUPS WAS ON

IT WAS A CHILLY NORTH CANTERBURY MORNING, PERFECT FOR A CUP OF WARM SOUP, OR THREE, AND THERE WAS A GOOD VARIETY OF FLAVOURS ON OFFER. OUR "MASTER CHEF" CHAMPION WOULD BE DECIDED VIA A SECRET BALLOT USING COLOURED ICE-CREAM STICKS.



The battle of the soups would see Bridget Campbell's traditional French Onion up against Mark Te Whetu's Pacific

Gumbo and Mike Quigley with a Creamy Pumpkin. Customers and a few lucky Redpath's staff would vote for their favourite.

All the soups went down a treat with the judges, but there were some questions to be asked about one of the soup's originality. Rumour has it this may have been more of a packet/can invention than Master chef's creation. Also after reviewing some camera footage, some dodgy voting was uncovered. "Mark was that a handful of your own ice-cream sticks that you placed in the ballot box?"

With this information coming to light, there was no other option but to disqualify Mark (dodgy) Te Whetu, resulting in Mike being crowned "Master Chef" with Bridget just a few votes behind to take out second place. **R**



Pumpkin Soup – Chef Mike Quigley

1kg pumpkin
60g butter
3-4 tsp chicken stock powder
1/2 tsp salt and pepper to taste
3 onions
2 kumara
4 slices of bacon
1/2 cup of cream
1/4 teaspoon nutmeg
Chopped chives as a garnish

1. Cook pieces of pumpkin and kumara in the microwave (8-10mins) and peel pumpkin when cool to touch.
2. Fry chopped onion in the butter then add diced bacon and fry until just cooked.
3. Add approximately 1L of water to a large pan and add onion and bacon.
4. Mix chicken stock with a little warm water and add to pot, along with the cooked pumpkin, kumara and salt and pepper.
5. Cook over a low heat for about 45 minutes or until desired consistency.
6. Taste and add more salt or pepper or stock and water if required.
7. Allow to cool, then put in kitchen whiz to combine to a fine consistency, (put through a sieve for a smoother soup).
8. Before serving add 1/2 a cup of cream to soup.
9. Garnish when plated with chopped chives if desired.



Pacific Gumbo – Chef Mark Te Whetu

1 onion, chopped
2 stalks celery, sliced
1 green capsicum, de-seeded and chopped
1 chorizo or spicy sausage, sliced
1/2 tsp dried thyme
1 bay leaf
420g can Wattie's Condensed Tomato Soup
400g can Wattie's Mexican Style Tomatoes
400g can coconut milk
400ml vegetable stock
250g firm white fish, cut into pieces (Gurnard, Tarakihi or Lemonfish)
Cajun seasoning to taste

1. Heat a dash of oil in a large saucepan and add the onion, celery and green capsicum. Cook over a moderate heat, stirring frequently until the vegetables are soft but not browned.
2. Add chorizo, thyme, bay leaf and continue to cook for a further 2 minutes.
3. Add Wattie's Condensed Tomato Soup, Wattie's Mexican Style Tomatoes, vegetable stock and bring to the boil. Reduce heat, add coconut milk and simmer gently for 20 minutes. Add cajun seasoning to taste.
4. Add the prepared seafood and continue to simmer until seafood is just cooked, 3-6 minutes. Stir through some chopped parsley and serve in bowls.
5. Add your favourite seafood to this recipe – mussels, prawns, scallops.

Traditional French Onion Soup – Chef Bridget Campbell

2 tbsp Olive Oil
1 bouquet garni, tie sprigs of thyme, sage, parsley and bay leaf together on a string
50g butter
2 cloves garlic, crushed
1kg onions, thinly sliced
2L beef stock, heated
4 tbsp flour
1 1/2 cups dry white wine
1/2 cup port
Cajun seasoning to taste

1. Heat oil and butter in a large saucepan, until butter stops foaming. Add onions, cook over a low heat until transparent and soft, about 20-30 minutes, stirring from time to time. Do not brown.
2. Add the garlic. Sprinkle in the flour, stir well, then add the heated stock, wine and bouquet garni. Simmer for 30-40 minutes, until well flavoured. Season and add the port. Remove the bouquet garni.
3. Serve with lightly toasted French bread.





WITHIN THE ELECTRICAL INDUSTRY CHANGE IS COMING. NOT JUST CHANGE THAT MEANS YOU MUST STOCK A NEW ITEM, OR THAT A CUSTOMER WILL BE DEMANDING SOME KIND OF NEW GADGET FOR THEIR HOME - I'M TALKING ABOUT REAL CHANGE IN HOW THE INDUSTRY OPERATES, AND USING TECHNOLOGY TO IMPROVE AND ENHANCE EVERYTHING THAT YOU DO. IT MIGHT SOUND LIKE SOMETHING OUT OF SCIENCE FICTION, BUT YOU AND YOUR BUSINESS NEED TO BE PREPARED FOR THE WORLD OF AR (AUGMENTED REALITY).

Many of you reading this will be getting visions of 'The Lawnmower Man' movie from the early 90's where Pierce Brosnan wears a ridiculous outfit and runs around in a virtual reality world. Whilst this is fun to watch and participate in, the business functions are limited.

With the development of augmented reality that actually works, we are now able to look into the business use case, and how it will benefit each industry – basically assisting you with your day to day jobs! (And making life easier!).

For those of you reading this and going 'what on earth is he talking about' – let me explain.

Virtual reality (VR) is an artificial, computer-generated simulation or recreation of a real-life environment or situation. It immerses the user by making them feel like they are experiencing the simulated reality first-hand, primarily by stimulating their vision and hearing.

FRESH TECHNOLOGY

AR YOU READY?

Augmented reality (AR) however, is a technology that layers computer-generated enhancements through a camera and gives you the ability to interact with it. AR is developed into apps and used on mobile devices to blend digital components into the real world.

Devices like Google Glass and Microsoft HoloLens are early editions in technologies to make this happen, where you wear a lightweight device and walk around seeing everything as you normally would – but can layer on top digital information.

HOW IS THIS RELEVANT TO OUR INDUSTRY?

Electrical Design and Maintenance

Imagine visualising the design of a new overhead power line extension, complete with line sag and spacing to help you better understand how that new line will actually look and act in the real world. Or possibly a long road crossing where clearance requirements are very important; you could be able to visualise the conductors sagging over the road and see if they have the proper clearance as larger trucks pass under the superimposed conductors. You may even be able to model the hotter seasons when conductors tend to sag the most.

Another scenario might involve a customer getting new internal wiring done for their new building construction project. The level of work and effort to discover what is required and design the new solution can be time consuming and expensive. Imagine now if that with the use of an AR interface, you could look at a digital rendering of the proposed building, and a design of where the new cabling is to be installed? Taking a look at the structure before it's actually built, giving staff and customers a much better visualisation of how the final layout would look before it even began.

With AR you can also use the system for documenting existing sites, which works very well for repair. Bringing a database of existing knowledge and plans can reduce the time to resolve issues, and standardise your process. All of this adds efficiency which reduces cost.

Using a headset with a communications network, workers in the field can access GIS data and remote human expertise. In one possible scenario, workers may be looking at a power fault buried deep under the street, but have no way to know exactly where to find it. Generally, they would look for the closest entry point, but this can be hampered by road conditions like traffic or bad weather. AR allows them to now glance down the street to exactly where the fault is. This is technology that is being used now.

The chronic problem with augmented reality has always been one of practicality. You could have the most basic forms of AR on your regular phone, as provided by apps like Layar, which has been around since 2009, but those have never been particularly compelling. Or you could have more sophisticated and appealing augmentations, as presented by Google's Tango project, but you'd need a big fat tablet to lug around to make them happen. Apple's latest difference is to combine the convenience of your daily phone with the appeal of advanced AR.

It isn't just digital headsets or phones and tablets that are providing this other dimension of information.

Smart wristbands with built-in voltage detection can alert workers when they're close to a dangerous line. Similarly, wearable voltage and load sensors can be used to isolate outages and pinpoint power-quality issues from distributed resources into the grid. Wearable heat sensors might be used to identify hot spots in devices in the field, as is done today with smart phones.

These are some of Schneider's own documented benefits that are commonly found in augmented reality applications.

Safety: The technology can provide easy-to-follow, visual, step-by-step operating procedures and key messages, which reduce human error. It also helps operators select the appropriate equipment for performing specific tasks. In addition, it improves safety for operators. For example, AR can supply operators with information about the location of existing utilities lines and buried utilities and this can be superimposed on workers' devices to give visual information about their location.

Training and maintenance:

Workers can learn how to perform new tasks and maintain products using the technology's visual instructions.


Modeling and configuration:

Equipment can be quickly and easily visualised, designed, and modified. HD 3D allows each part to be seen in detail.

Documentation: It provides a new format for gathering information that can further enhance users' knowledge when combined with traditional methods.

Cost-effective and efficient:

AR technology can cut costs by boosting operator efficiency because it simplifies tasks by supplying the relevant resources and data for workers, increases machine efficiency, reduces waste caused by redesigns, lowers operational overhead, and accurately estimates the budget thanks to AR modeling.

Augmented reality technology is expanding across industries and the growth shows no sign of stopping. Forward-thinking Redpaths customers should take advantage of this new technology, which provides the opportunity to give you the upper hand and enhance your customer service. 

30W LED Spotlight SWL632



Multi Angle, 230V Input (driver incl.)
Warm White 3,000K, 2,100lm
Supplied with 15 & 38° reflector

Dimensions: H:265mm, W:90mm

12W LED Spotlight SWL631



Multi Angle, 230V Input (driver incl.)
Warm White 3,000K, 840lm
Supplied with 20 & 40° reflector

Dimensions: H:205mm, W:63mm

3W LED Downlight DLEK812



230V Driver included
Warm White 3,000K, 132lm
30° lens

Dimensions: O:51mm, CO:41mm

Does it
Loosen?
Yes it...
Can.

Does it
Lubricate?
Yes it...
Can.

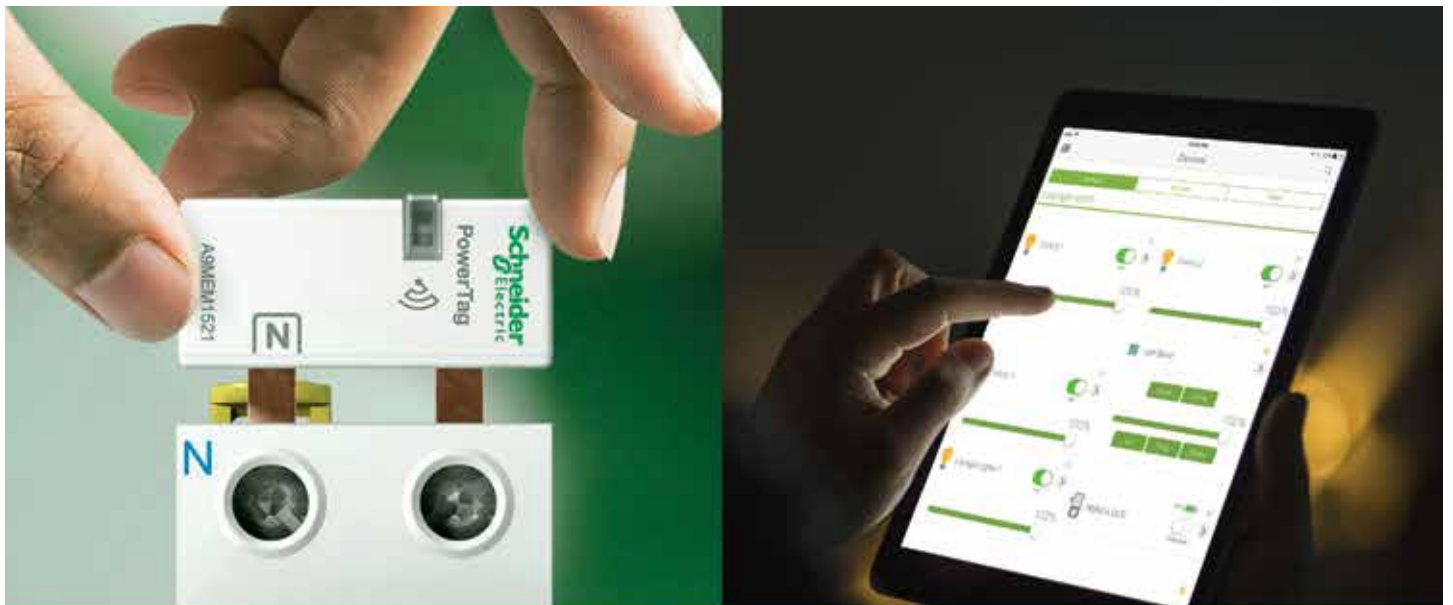
Does it
Penetrate?
Yes it...
Can.

'cause we don't sell **can't**.



R. Redpaths

Plug in to better value.



New solutions from Schneider Electric

Meet PowerTag, the world's smallest energy sensor

PowerTag is a wireless energy and power sensor that accurately monitors energy consumption in real time. Small-in-size and easy-to-install in electrical panels. PowerTag brings large benefits, from energy usage analytics for the facility manager, cost savings for the building owner, to optimised uptime of equipment on-site. With PowerTag, offer your customers a solution with a wide range of benefits including:

- > U, I, V, P values
- > Active energy partial and total values, Class 1 accuracy
- > Wireless communication
- > Voltage loss and overload trip alarm
- > Load balance



Visit schneider-electric.co.nz to find out what PowerTag can do for your business.

NERO automation – retrofittable, scalable and wireless

NERO is an affordable wireless automation solution that allows you to create a smart home, one switch at a time.

The smart phone or tablet becomes the control interface for all the connected devices, seamlessly merging lifestyle and technology into one. Installation is simple and the NERO platform offers connected devices, such as dimmers, relays, dry contact, plug packs, security and sensors.



Visit pdl.co.nz to find out about the full Nero range

schneider-electric.co.nz

Life Is On

Schneider
Electric

VYNCO FUSION

Vynco Fusion gives you the flexibility to easily customise switchgear for your clients.

START WITH FUSION WRAP...

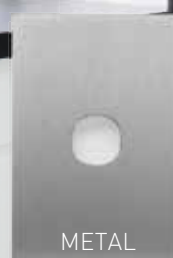
Wrap is the elementary product in the Fusion range. The universal base-plate, and clip-on fascias, allow you to upgrade to Fusion White or Metal, or other colours according to the customer's style and budget.



WHITE



SAND



METAL



CUSTOM

FULLY INTEGRATED LED BATTENS.

NOW AVAILABLE IN 6000K



Beam Angle:	120°
Colour Temperature	4000K / 6000K
Input Voltage:	220-240 V
L70 rating:	50,000hrs
Cable entry knockouts:	18mm
Warranty:	5 Years

4ft. LED BATTENS

Colour temp: 4000K
Power (W): 40W
Lumen Output: 3800lm
1200L x 80W x 65D
LEDBATTEN40W4K

NEW Colour temp: 6000K
Power (W): 40W
Lumen Output: 4000lm
1200L x 80W x 65D
LEDBATTEN40W6K

5ft. LED BATTENS

Colour temp: 4000K
Power (W): 60W
Lumen Output: 5700lm
1500L x 80W x 65D
LEDBATTEN60W4K

NEW Colour temp: 6000K
Power (W): 60W
Lumen Output: 6000lm
1500L x 80W x 65D
LEDBATTEN60W6K



Push-lock Plugs

Large Terminal Blocks

Sliding End Caps



www.eurotechlighting.co.nz

info@eurotechlighting.co.nz



TIME TO CLEAR THE AIR

CHOOSING A BATHROOM FAN WITH EFFICIENT PERFORMANCE FOR THE SIZE OF THE ROOM IS FUNDAMENTAL - BUT USING A FAN TIMER CAN ENSURE OPTIMAL STEAM REMOVAL.

WHETHER YOU HAVE A LARGE OR SMALL BATHROOM, ENSUITE OR SEPARATE SHOWER ROOM IT IS IMPORTANT TO REMOVE STEAM OR IT WILL VERY QUICKLY CREATE MOULD & MILDEW ON CEILINGS, SILLS AND WALLS. AND IN WINTER THAT BATHROOM WILL FEEL EXTRA COLD AND DAMP.

WHY USE A TIMER

The right fan can effectively remove steam while you are in the shower but what happens when you leave the room. If you are someone who likes to go get dressed in your own room, then chances are you have switched off the lights & fan as you leave.

The majority of steam and moisture is usually still present in the air.

It needs to be exhausted - and it is not always comfortable or safe to leave the window open. The right solution is a fan timer that will continue to run the extraction fan after you have left the room & switched off the lights.



BUT WAIT THERES MORE...

Fan timers operate the extractor fan in increments based on how long you have been in the room. If you take a long shower there will be more steam...the timer keeps the fan on for longer. Take a quick 5 minute shower and the timer remains on for a shorter period. And if you only popped in to check your hair or wash your hands - fan timers have a very convenient delayed start so the fan does not switch on unnecessarily.

BEST OF BOTH WORLDS

If you have an existing fan look for the Manrose Fixed-Air Timer, or the Simx Fully Adjustable Timer. Both are in the green & yellow blister packs.



Manrose also offer a range of high quality fans that include a timer. With durable ball bearing motors the longevity of operation is supported by a five-year warranty. And with new improved engineering the performance of many 150mm fans is increased to 109l/s (394mhr) a quiet 38dB and a low 27 Watts - offering you the best of timed ventilation for your bathroom.

TAKE THE TIME TO DO IT RIGHT

The effective way to keep removing steam after you leave a bathroom is with a fan timer.
Choose the Manrose Time-Air or the Fully Adjustable Timer

*More convenient & safer than leaving
a window open!*

Fan Timers can be installed within the fan or in parallel
with a light switch. Suitable for new or existing fans.

Delayed Start avoids unnecessary start up of the
fan when the bathroom lights are only switched on
for short periods like washing hands.



FULLY ADJUSTABLE TIMER
Order Code: FAN2444



MANROSE FIXED TIMER
Order Code: FAN0372



Simx

Distributed by Simx Ltd

Available from your local Redpaths.

MANROSE



Low Profile Ceiling Fans
FAN0595 - 150mm Timer



Complete Inline Fan Kits
FAN0619 - 150mm Timer



Thru Wall Fans
FAN0127 - 150mm Timer

MANROSE is the market leader in proven reliable extraction solutions,
with a complete range of fans and kits in standard and timer models.



Manrose proudly distributed by Simx Ltd.



Simx

Available from your local Redpaths branch

FATHER'S DAY

WHAT IS FATHER'S DAY?
IT IS A TIME TO CELEBRATE
YOUR FATHER OR
THE FATHER FIGURES IN YOUR LIFE.

FATHERS COME IN MANY SHAPES AND FORMS AND FATHER'S DAY IS ABOUT CELEBRATING THOSE SIGNIFICANT MEN IN YOUR LIFE THAT HELPED TO RAISE YOU AND FORM WHO YOU ARE TODAY. TAKE THE TIME TO THANK THEM ALL, WHETHER THEY ARE YOUR BIOLOGICAL FATHER, STEP FATHER, GRANDFATHER, UNCLE, BROTHER OR EVEN A FOSTER FATHER.

WHY FATHERS MATTER

Fathers parent differently. Fathers are more likely to use more advanced language with young children assisting in developing a child's language skills.

They tend to play differently, adapting a more rough and tumble style compared to a mother's more gentle elegance. This promotes confidence and develops a healthy balance between timidity and

aggression, contributing to a well-balanced member of society.


Fathers encourage their children to push their limits, climb a little lighter, or ride a little faster, teaching them to strive for more in life and educating children that they need to work hard to succeed in the world.

Men and woman are different. Fathers provide children with a well-rounded understanding of what a healthy relationship is between the two sexes. They teach their sons to treat woman with respect and care, while teaching daughters how a man should treat them but also gives them the strength to know they can be confident and happy alone.

Fathers teach their children different things growing up. A mother traditionally teaches their child love and care, how to clean, to cook, and to garden. A father traditionally

teaches their child to build a tree house, change a tyre, and change the oil in their car. Both roles are unique and equally important in the development of any well-adjusted socially independent young adult.

EVERY FATHER IS DIFFERENT

We all have different types of father figures in our lives that have all influenced us in different ways. Some come from a two parent family being raised by our biological father. Some have a biological father and/or step father that have shaped our lives in different ways. Others have an uncle, brother or grandfather who played the father role in our upbringing, whether due to our father passing or being absent. Every experience is diverse and equally important to the development of who we are today. Take some time before Father's Day, go old school and put pen to paper to tell that father figure how you appreciate them. 



Looking
for the
perfect gift

POWER POINTS PRODUCT PICKS

GPO ATTACHE GO TURNTABLE AMBASSADOR

- Vinyl Record Player with Built in Battery

Take your turntable and record to the beach, picnic or camping with the limited edition GPO ATTACHE "GO". With all the great features of the GPO Attache, the Attache Go has a built in rechargeable battery making this vinyl record player truly portable!



The Ambassador has a classic finish with leatherette binding and brass-styled corner protectors. The briefcase style record player features a three speed turntable, auto stop function, built in speakers and manual pick up arm. The unit has also been built to make it easier to play music wherever you are. This turntable will play on the go.

FEATURES:

- Portable briefcase turntable player, enjoy music anywhere anytime!
- Rechargeable battery up to 2.5hours playback
- Built in twin stereo speaker
- Analogue output: RCA connectors L/R
- Digital output: USB port
- Supports all 3 record speeds: 33/45/78 RPM
- Record your vinyl to a USB stick (supplied)
- Included are power supply and USB stick
- Built in RCA audio out to allow additional speakers to be connected
- Compatible with the GPO Westwood speaker and GPO Westwood Mini amplifier.
- 2 year warranty



STRIKER GARAGE PARKING SENSOR

- Wall mounted, battery operated

The Striker Garage Parking Sensor with its wireless, ultrasonic range-finding technology detects the distance of your car from the wall. It's easy to install, just mount the base unit on a vertical surface in front of the vehicle, at bumper level. Then mount the signal light in a position easily viewed from the driver's seat.

THE LIGHTS INDICATE:

- Green - vehicle approaches
- Orange - slow down
- Red - desired distance has been reached.
- Requires 4 x AA batteries (not included).



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■ The 10 Husband Virgin

Lawyer married a woman who had previously divorced ten husbands.

On their wedding night, she told her new husband, "Please be gentle, I'm still a virgin."

"What?" said the puzzled groom.

"How can that be if you've been married ten times?"

"Well...."

Husband #1 was a sales representative: he kept telling me how great it was going to be.

Husband #2 was in software services: he was never really sure how it was supposed to function, but he said he'd look into it and get back to me.

Husband #3 was from field services: he said everything checked out diagnostically but he just couldn't get the system up.

Husband #4 was in telemarketing: even though he knew he had the order, he didn't know when he would be able to deliver.

Husband #5 was an engineer: he understood the basic process but wanted three years to research, implement, and design a new state-of-the-art method.

Husband #6 was from finance and administration: he thought he knew how, but he wasn't sure whether it was his job or not.

Husband #7 was in marketing: although he had a nice product, he was never sure how to position it.

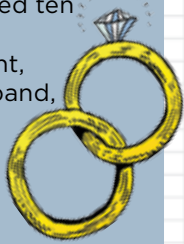
Husband #8 was a psychologist: all he ever did was talk about it.

Husband #9 was a gynecologist: all he did was look at it.

Husband #10 was a stamp collector: all he ever did was... God! I miss him! But now that I've married you, I'm really excited!"

"Good," said the new husband, "but, why?"

"You're a lawyer. This time I know I'm gonna get screwed!"



■ Wife calls her husband...

and says, "Darling, the car is broken, it won't start."

"What?! It's in perfect working order, what's wrong with it?"

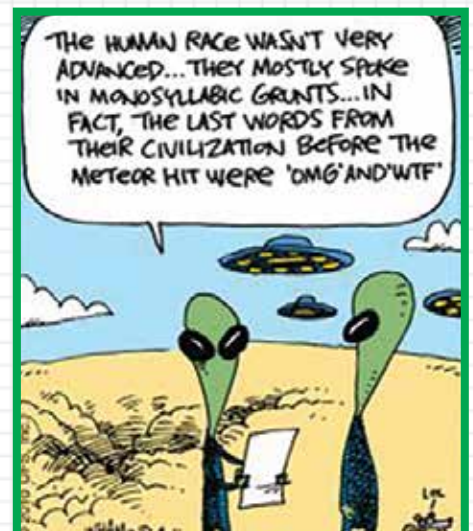
"It's water in the carburetor, love."

"Oh no, where are you right now??"

"Um, in the little lake behind the house..."



Well I made it through
the day without
having to beat
anyone to death
with a chair.
I'd say my
people skills
are improving



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**Plug in to
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One Liners...

- You're a breath of fresh air, just like my asthma inhaler!
- Give a man a fish, and he can eat for a day. But teach a man how to fish, and he'll be dead of mercury poisoning inside of three years.
- It isn't pollution that's harming the environment. It's the impurities in our air and water that are doing it.
- There is no smog out in the country. But there is hays everywhere.
- Did you hear the watermelon joke?.....It's pitiful.
- The policeman says, "Then why do I smell wine?" And the priest looks down at the bottle and says, "Good Lord, He's done it again!"
- Website log in: Sorry, your password 257EeffQ@# is not secure enough.... meanwhile, cash machine login 1234: Here's your \$1000.
- If I ever go missing, you should put my picture on beer rather than milk bottles. That way, my friends will find me faster.

I heard the Secret Service had to change their commands. They can't say "Get Down!" anymore when the President is under attack. Now It's "Donald Duck!"



■ Smart Kid:

Glenn sends his son, Evan to bed. Five minutes later, Evan screams downstairs, "Dad! Can you get me a glass of water?" Glenn says, "No. You had your chance." After a minute Evan screams again, "Dad! Can you get me a glass of water?" Glenn says, "No. I told you, you had your chance. If you ask one more time, I'll come up there and spank you."



An elderly man was on the operating table, about to be operated on by his son, a famous surgeon. Just before they put him under, he asked to speak to his son: "Don't be nervous, boy, just do your best and just remember, if it doesn't go well, if something happens to me... your mother is going to come and live with you and your family."

Gotta see it !!



DESIGNATED SURVIVOR

The attack that makes Tom Kirkman, President, is just the beginning of what is to come. Binge watch on Netflix.

Gotta read it !!



THE GREAT KIWI PUB CRAWL

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TESTING, TESTING - 1, 2, 3



TESTING, TESTING - 1, 2, 3. SINCE I LAST CHECKED IN WITH CIRCUIT BREAKER, THAT'S BEEN THE THEME IN THE MIDDLE OF MY SUPER GT SEASON, DRIVING THE GULF RACING PORSCHE GT3-R.

We suffered at the third race of the season – the Autopolis 300km – with summer temperatures rising and the performance of the Porsche subsequently falling.

We qualified a lowly 18th, and finished 17th after a tyre problem late in the race when we were running on the edge of the top ten. After finishing on the podium and qualifying on the front row at the first two rounds, this was understandably a concern.

Thankfully, June was all about testing. We had three two-day “test events” at

Suzuka and Sugo, where all 45 cars front up with 28 hours of total track time to fine tune our packages.

Testing is another word for practice, but unlike rugby or football training, your rivals are all around you at the same time. We test different tyres, make dozens of adjustments to the car settings, simulate qualifying and race runs, as well as logging data and performance in all kinds of weather conditions.

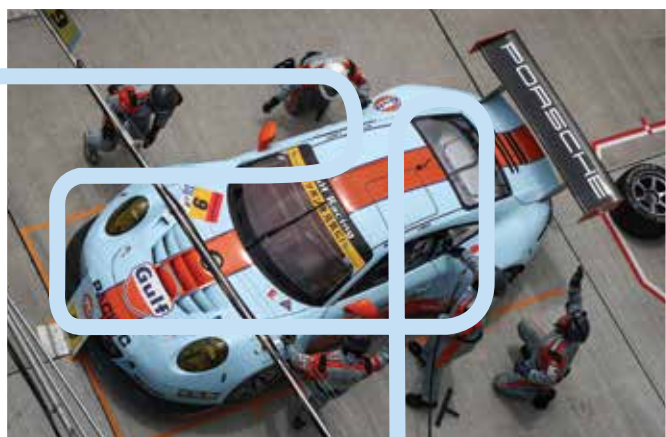
So it's practice, but it's pretty serious all the same!

For us, it was a chance to shift up our approach and find out feet with the



‘harder’ tyres, which we would need to last during the summer months. It went well, too. We topped the time sheets at the first test at Suzuka, were in the top 5 at Sugo and finished up in third place at Suzuka again at the end of the month.

Now, we have regained confidence in our ability to score points at the Sugo 300km race, which is coming up on July 23. Following that are the Fuji 300km and the Suzuka 1000km in August, split by an appearance in a 700hp Ford Mustang TranZam in Thailand – more on that in the next issue! 



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Enterprise manages a large community of skilled talent across most disciplines, which means we will have the right people when you need them, allowing you to match your workforce with your workload.

When it comes to recruiting staff, many businesses believe they can do it themselves. They give it a go, and it often turns to custard.

Here's why: It's hard to find people in the first place, and then comes the difficult and time-consuming task of making sure they're the **right** people, and figuring out how to approach and engage them. In the long run it's easier, less stressful and more cost effective to use a specialist recruitment company.

Trades staff

We can assist with short term assignments, long term projects or permanent roles for:

- > Electricians
- > Plumbers
- > Carpenters
- > HVAC Engineers



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A blurred perspective of a supermarket aisle, looking down a long row of shelves. In the foreground, the metal frame of a shopping cart is visible, with green handles. The background is a blur of colorful products on shelves, creating a sense of motion.

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