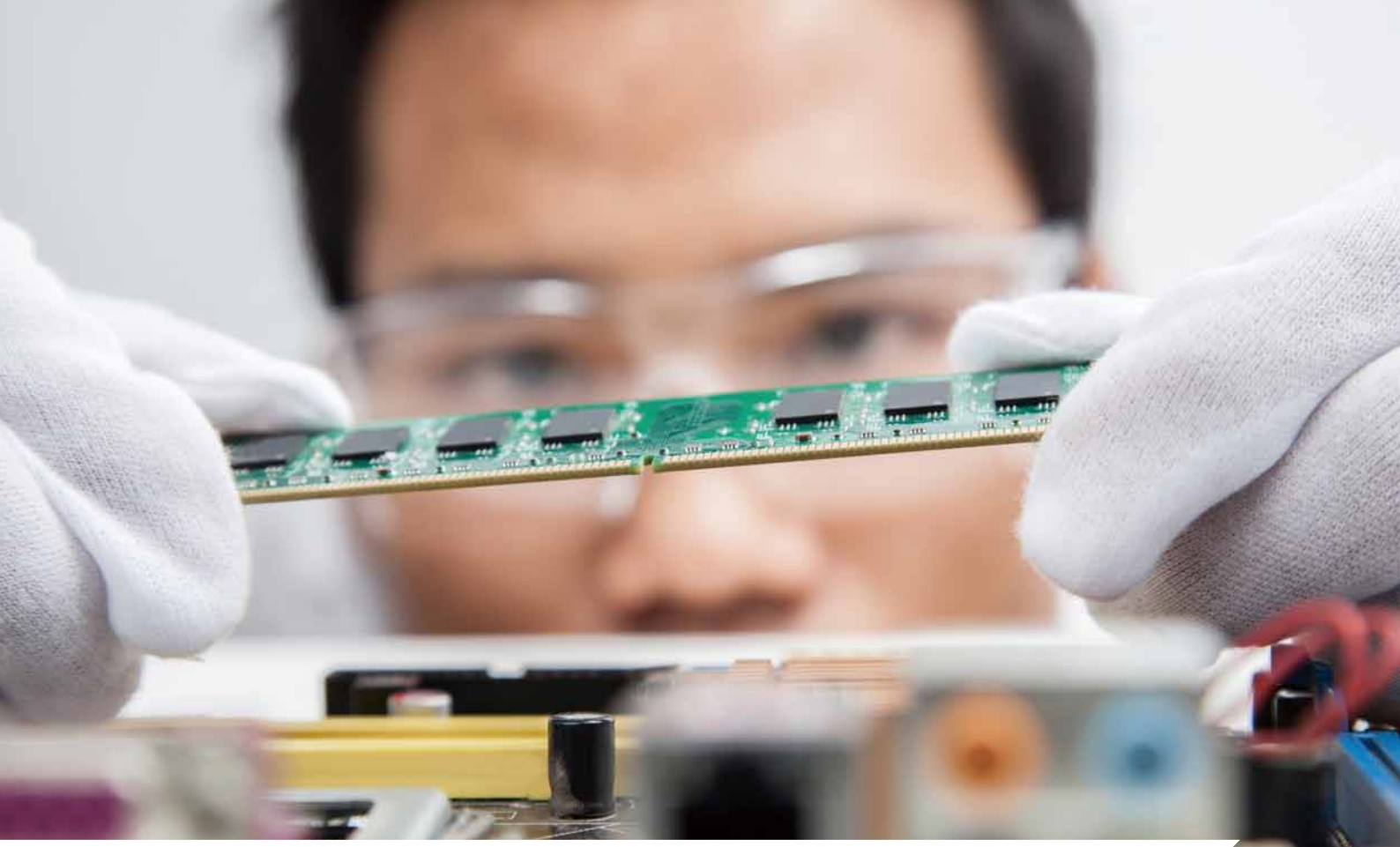

Electronics Manufacturing

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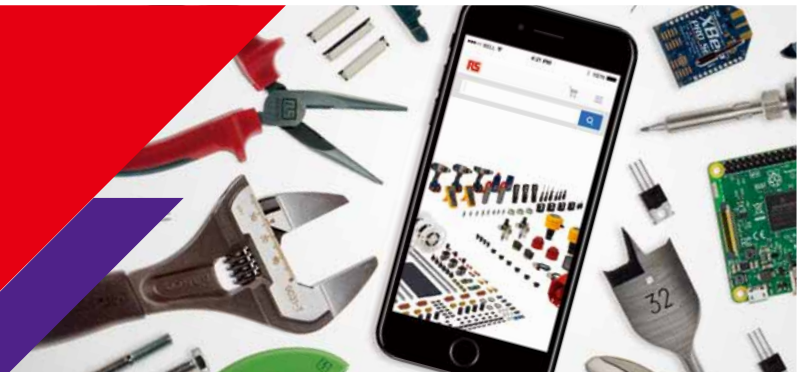

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Connectors

TE Connectivity EI Series Straight Crimp Connector Housing

- 2.5mm pitch
- 2 Way 1 Row
- Female

6801200	2.5mm Housing,receptacle,EI,straight,2w	171822-2
6801219	2.5mm Housing,receptacle,EI,straight,4w	171822-4
7121794	2.5mm housing,recpt,EI,straight 8 way	171822-8
7188532	Header vert 4 way 2.5mm EI	171825-4

TE Connectivity AMP-LATCH Novo Series 2.54mm Pitch Right Angle Cable Mount IDC Connector

- Wire to board IDC ribbon cable connectors with centre and military polarized centres and a 2.54 x 2.54 mating grid for 1.27mm pitch ribbon cable
- Made from UL 94V-0 thermoplastic with two rows of IDC duplex plated tuning fork style contacts accepting a wire size of 28-26 AWG

7198794	AMP-Latch receptacle,0.08-0.15mm²,20way	1658622-4
7198797	AMP-Latch receptacle,0.08-0.15mm²,24way	1658621-5
7829934	AMP-LATCH Novo IDC Receptacle 34P	1658622-8
7560966	Receptacle 10 way socket Amp-Latch	1658622-1

TE Connectivity AMPLIMITE HDP-20 Series size 20 Male Crimp D-sub Connector Contact

- A range of HDP-20 size 20 DF precision formed crimp snap-in contacts for use with the AMPLIMITE d-sub connector system
- Contacts use crimp tool stock no. 446-816 and insert/ extraction tool stock no. 446-822

6808917	AMPLIMITE HDP-20 pin crimp contact 20 DF	66506-9
6809689	AMPLIMITE HDP-20 pin crimp contact 20 DF	66506-3
7180885	AMPLIMITE HDP-20 pin crimp contact 20 DF	66506-4
7999272	AMPLIMITE HDP-20 pin crimp contact 20 DF	66506-3

TE Connectivity USB Connectors Type A

- A range of TE Connectivity USB Type A Connectors.
- Mounting styles: Through-hole, Surface-mount, Cable-mount

5298195	USB type A r/a thru-hole socket	292303-1
9097864	Type A USB right angled PCB receptacle	292303-7
7199438	Mini USB,Receptacle,r/a,A Type,4w	292303-3
7199431	Mini USB,Receptacle,r/a,A Type,4w	292303-4

TE Connectivity Straight 50Ω Cable Mount BNC Connector

NEW

- Professional Grade crimp plugs with bayonet locking and crimp terminations to provide insulation grip and eliminate the need for soldering
- Various cable crimp termination styles, dielectric materials, body plating options
- Suitable for use with various coaxial cable types

1354999	Crimp BNC straight plug-RG58 cable,50ohm	1-1337427-0
3940872	Crimp BNC straight plug-RG58 cable,50ohm	1-1337427-0
3940894	BNC straight plug,crimp, Ag, RG174,RG188	1-1337430-0
3940951	Crimp BNC elbow plug-RG58 cable,75ohm	1-1478075-0

TE Connectivity Right Angle Through Hole standard SMB Connector

- Professional grade PCB jacks with PTFE dielectric, gold plated brass body and gold plated brass centre contacts
- PCB sockets have a 6.35mm flange and have a snap-on coupler style and are available in a variety of mounting styles

4205417	AuPt SMB male r/a PCB socket,50ohm 250V	1-1337481-0
4205401	AuPt SMB male straight PCB socket,250Vac	1-1337482-0
1355006	AuPt SMB male straight PCB socket,250Vac	1-1337482-0

TE Connectivity PCB DIP Sockets with Stamped and Formed Contacts - Economy 800

- Precision four-finger inner contact provides concentric funnel entry for easy flat and round lead insertion
- "X" and "Y" Stackable
- Open ladder for cooling, cleaning and inspection
- Low profile
- Accommodates rectangular or round IC leads

5423559	16-way 0.3in Economy DIL socket	2-1571552-4
5423600	24-way 0.6in Economy DIL socket	2-1571552-8
5423616	28-way 0.6in Economy DIL socket	2-1571552-9
5423537	8-way 0.3in Economy DIL socket	2-1571552-2

TE Connectivity Cat6a Industrial RJ45 Plug Connector

NEW

- Industrial Ethernet 10 Gbit/s performance
- Shielded housing
- IDC contacts for tool free connection
- Automatic wire cut-off function

1356046	Industrial shielded Cat6a RJ45 IP20 Plug	2120892-1
1355488	Industrial shielded Cat6a RJ45 IP20 Plug	2120892-1

Harting Crimp Extraction Tool for HAN Series Crimp Contact

- The parallel action crimp tool offers optimal crimp quality and features a rotating locator. See stock number 114-7706
- For service and small assembly, the service crimp tool is offered complete with locator. See stock number 313-6607

1147728	Dismantling tool for Han DD/D connector	09990000052

Connectors & Electromechanical

Harting M12 Series Circular Connector Socket

NEW

- Slim design X-coded Connector ensures a robust and reliable connection
- Features a high level of ingress protection
- Suitable for use in harsh environments

1262296	M12 PFT Slim Design Female, X coded	21038812825
1262302	M12 slim angled male X-cod 8-pol	21038813805
1262306	M12 slim angled female X-cod 8-pol	21038814805

Harting Ha-VIS preLink Terminal Blocks

NEW

- IDC termination
- Can be combined with all preLink connector housings
- Easy to assemble

1351254	PreLink terminal module AWG22/23 black	20820000005
1351202	PreLink terminal module AWG22/23 black	20820000005
8755629	preLink Termination block AWG 27-26 1=10	20820000003
8755663	preLink Termination block AWG 24-22 1=10	20820000001

ebm-papst AC Ball Bearing Axial Fans

- Compact high performance equipment cooling fans
- Housing constructed from diecast aluminium
- Motor stall protection by temperature sensor with automatic reset

7719108	AC Axial Fan, 150 (Dia.) x 55mm, 390m³/h, 39W, 230 V	W2S130-AA03-01
7719102	AC ball bearing fan,150mm 380cu.m/h 110V	W2S130-AA25-01
8258125	AC Axial Fan, 150x55mm, 230V	W2S130-AA03-44
8258131	AC Axial Fan, 150x55mm, 115V	W2S130-AA25-44

ebm-papst S-Panther High Performance Reduced Noise Compact Fans

NEW

- Superior efficiency
- Lower noise levels
- Reduced power consumption
- Similar air flow running at a lower speed

1250444	S-Panther DC fan PWM, 92mm 140cu.m/h 12V	3252J/2HP
1250449	S-Panther DC fan, 92mm 140cu.m/h 48V	3258JH
1250451	S-Panther IP68 DC fan,PWM tacho 92mm 48V	3258J/2HPU
1250443	S-Panther DC fan, 92mm 140cu.m/h 12V	3252JH

Toggle Switches, Min, Commercial

- Silver contacts
- Solder tag terminals
- Suitable for moderate duty applications
- Brass actuator and Diallyl Phthalate case

4480747	SPDT on-on solder tag toggle switch 5A	1A11-NF5STSE-B
4480769	DPDT on-on solder tag toggle switch 5A	1A21-NF5STSE-B
4480775	DPDT on-off-on solder tag t/switch 5A	1A23-NF5STSE-B
4480753	SPDT on-off-on slv contact toggle switch	1A13-NF5STSE-B

Cartridge Fuse, 2A, 5 x 20mm

- Used as supplementary protection in appliance or utilization equipment to provide individual protection for components or internal circuits
- Approvals: UL, VDE, SEMKO, BSI

563722	Anti surge T LBC fuse,2A 5x20mm	VBS UTE 2A 250V-P (05)
563425	Anti surge T LBC fuse,6.3A 5x20mm	VBS UTE 6.3A 250V (05)
563532	Anti surge T LBC fuse,5A 5x20mm	VBS UTE 5A 250V-P (05)
563334	Anti surge T LBC fuse,10A 5x20mm	RU UTE 10A 250V (05)

TE Connectivity DPDT PCB Mount Non-Latching Relay

- Creepage and Clearance 10//10 mm
- Applications: interface, automation, domestic applications, security lighting, heating systems.
- Approvals: UL, CSA, VDE

6803849	PCB Relay DPDT 8A 24Vdc AgNi	RT424024
6803830	PCB Relay DPDT 8A 12Vdc AgNi	RT424012
6803842	PCB Relay DPDT 8A 48Vdc AgNi	RT424048
7181724	Relay,power,PCB,DPDT,8A,9Vdc,AgNi cont	RT424009

Blade Automotive Fuses

- Equivalent to ATO and ATC fuses
- Voltage rating of 32Vdc
- Used for low voltage applications

563778	Tan blade automotive fuse,5A 32V	ATO 5A 32V (PF)(02)
563750	Blue blade automotive fuse,15A 32V	ATO 15A 32V (PF)(02)
563744	Red blade automotive fuse,10A 32V	ATO 10A 32V (PF)(02)
563766	Green blade automotive fuse,30A 32V	ATO 30A 32V (PF)(02)

RS Pro 156W Embedded Switch Mode Power Supply

- High efficiency, long life and high reliability
- Miniature size, high power density
- High operating temperature up to 70°C
- 105°C long life electrolytic capacitors
- Easy installlation with screw terminals

6210685	Switch Mode PSU, 24Vdc 156W	RS-150-24
6210679	Switch Mode PSU, 24Vdc 108W	RS-100-24
6210657	Switch Mode PSU, 12Vdc 102W	RS-100-12
6210584	Switch Mode PSU, 24Vdc 26.4W	RS-25-24

Passives & Semiconductors

TE Connectivity FSM Series Tactile Switches

- SPNO tactile switches available in THT, SMD & right angle mountings
- SMD types suitable for immersion
- Suitable for use with mobile devices

4791413	6x6mm tactile switch,5mm H 1.6N	FSM4JH
4791508	6x6mm SMD tactile switch,5mm H 1.6N	4-1437565-1
4791429	6x6mm tactile switch,5mm H 2.6N	FSM4JAH
8750595	Switch Tactile SMT Pushbutton SPST	FSM2JSMA

Vishay Single Layer Ceramic Capacitor

NEW

- Singlelayer AC disc capacitors
- Flame retardant
- High reliability
- Can pass 10 kV Pulses (10 per polarity)

1335623	VY1 Ceramic Capacitor 2,2NF 20% Y5V	VY1222M37Y5VQ63V0
1335622	VY1 Ceramic Capacitor 1NF 20% Y5V	VY1102M29Y5VQ63V0
1335621	VY1 Ceramic Capacitor 1,5NF 20% Y5V E3	VY1152M33Y5VQ63V0
1335624	VY1 Ceramic Capacitor 3,3NF 20% Y5V	VY1332M43Y5VQ63V0

RS Pro 22 mm Stainless Steel LED Indicator

- Chamfer low profile bezel
- Marine grade 316L stainless steel
- Full epoxy sealing
- Daylight readable
- Crisp super bright LED indication for instant status recognition
- Available in a wide variety of colours
- AC & DC options available

1232424	22mm 316L stainless steel LED, red 24Vdc	Q22Y5SXXSR24E
1232430	22mm 316L stainless steel LED,grn 220Vac	Q22Y5SXXSG220E
1232434	22mm 316L stainless steel LED,yel 220Vac	Q22Y5SXXSY220E
1232438	22mm 316L stainless steel LED,blue 220V	Q22Y5SXXB220E

Vishay 534 Series Wirewound Potentiometer

- Precision 10 turn wirewound potentiometers
- Stainless steel end slotted shaft
- Available with either Imperial (1/4in) on Metric (6mm) shaft
- Glass filled thermoplastic housing
- Supplied with metal lockwasher and nut
- Gold plated terminals

4607526	534 Series Pot with 6.34mm shaft, 10K	534B1103JL
4607510	534 Series Pot with 6.34mm shaft, 1K	534B1102JL
4607582	534 Series Pot with 6.34mm shaft, 5K	534B1502JL
4867093	534B Series Pot with 6mm shaft, 10K	534B1103JC8872

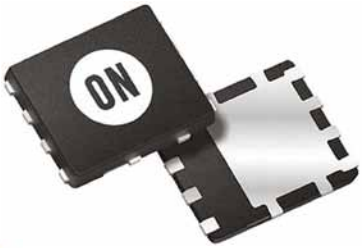
Raspberry Pi 3 Model B SBC

- Broadcom BCM2837 chipset running at 1.2 GHz
- 64-bit quad-core ARM Cortex-A53
- 802.11 b/g/n Wireless LAN
- Bluetooth 4.1 (Classic & Low Energy)
- Dual core Videocore IV® Multimedia co-processor

1239470	Raspberry Pi 3 Model B SBC (Bulk)	Raspberry Pi 3 Model B-Bulk
1225826	Raspberry Pi 3 Model B SBC	Raspberry Pi 3 Model B

ON Semiconductor N-channel MOSFET

- Maximum Continuous Drain Current: 250 A
- Maximum Drain Source Voltage: 60 V
- Maximum Drain Source Resistance:1.7 mΩ
- Pin Count 4+Tab



1263477	Power MOSFET N-Ch 60V 250A DFN-5	NTMFS5H600NLT1G

Microchip 10 bit Serial ADC Pseudo Differential

- Mounting Type: Through-hole
- Sampling Rate: 200ksps
- Architecture: SAR
- Typical Single Supply Voltage: 5V
- Pin Count: 16

6696064	A/D Converter 10Bit 8-ch 2.7V SPI PDIP16	MCP3008-I/P
7386651	10-bit ADC, 8-channel, SPI	MCP3008-I/SL
8895143	A/D Converter 10Bit 8-ch 2.7V SPI PDIP16	MCP3008-I/P

Microchip 8bit AVR Microcontroller

NEW

- 20 MHz Max. Operating Frequency
- Up to 20 MIPS at 20 MHz
- 32 KB Flash
- 1024 B EEPROM
- 2 KB SRAM

1310275	MCU 8-bit ATmega AVR RISC 32KB Flash	ATMEGA328P-PN
1310270	MCU 8-bit ATmega AVR RISC 32KB Flash	ATMEGA328P-AN
1310272	MCU 8-bit ATmega AVR RISC 32KB Flash	ATMEGA328P-MMH

VISHAY Bridge Rectifiers with Push-on Terminals

- Universal, 3-way terminals: Push-on, wrap around or solder
- High thermal conductivity package, electrically insulated case
- Center hole fixing
- Excellent power/volume ratio

2278766	Bridge rectifier,36MB40A 35A 400V	VS-36MB40A
2278823	Bridge rectifier,36MB160A 35A 1600V	VS-36MB160A
2278772	Bridge rectifier,36MB60A 35A 600V	VS-36MB60A

Test & Measurement

FLIR ETS320 Test Bench Thermal Camera

NEW

- 320 x 240 IR resolution (7800 pixels)
- Vibrant 3" LCD display
- 45° field of view
- ±3% measurement accuracy
- Pole mount included for fast and easy setup
- FLIR Tools+ software provided
- Wide temperature range, from -20°C to 250°C

FLIR

1356220	ETS320 Test Bench Thermal Camera	63905-1001

FLIR E6 WiFi Thermal Imaging Camera

NEW

- Fully automatic and focus-free
- MSX adds digital camera detail to IR images
- 60 x 480 digital camera mode
- Rapid WiFi or USB image transfer for documentation
- Suitable for use in harsh environments
- Withstands 2 m drop test
- Field of View (FOV): 45° ˣ 34°
- Image Frequency: 9 Hz

FLIR

135-3289	E6 WiFi Thermal Imaging Camera	63907-0704

Fluke 179 Digital Multimeter

- 6000 count LCD with 33 segment bargraph
- True rms (a.c.) measurement
- EN61010-1 safety standard compliance to Cat IV 600V & Cat III 1000V
- Resistance, continuity and diode measurement
- Capacitance measurement up to 10000µF

FLUKE

3944492	Fluke 179 digital multimeter	FLUKE 179

Keysight U1230 Series Digital Multimeters

- Built-in LED flashlight to illuminate test area
- Flashing backlight during continuity tests in noisy areas
- Vsense to perform non-contact voltage detection
- Data logging capability (stores up to 10 readings)
- IR-to-USB connectivity
- Operating temperature: -10 → 55 °C, 0% → 80% RH
- AC bandwidth 45Hz → 1kHz

KEYSIGHT TECHNOLOGIES

7403516	U1231A Digital Multimeter	U1231A
7403529	U1232A Digital Multimeter	U1232A
7403526	U1233A Digital Multimeter	U1233A

TDS2000C Colour

- 2.5 kpoint record length on all channels
- Advanced triggers including Pulse Width trigger and line-selectable Video trigger
- 16 automated measurements, and FFT analysis for simplified waveform analysis
- Built-in waveform limit testing

Tektronix

7442486	Colour oscilloscope, 200MHz 4 channel	TDS2024C

Megger MIT480 mk2 Series Insulation & Continuity Testers

- Insulation testing up to 500 V and 100 GΩ range in a hand held instrument
- Three wire connection for tip, ring and earth connection
- Gated access to 500 V to prevent accidental damage
- Adjustable insulation test voltage from 10 V to 500 V

Megger

1226797	MIT485/2 Insulation Tester - Euro	1004-742
1226796	MIT481/2 Insulation Tester - Euro	1004-741

RS Pro IT-1 Infrared Thermometer

NEW

- Large-scale LCD display infrared thermometer
- Single point laser sighting
- Integrated non-contact AC voltage detection 60 V ac → 600 V ac with LCD indication
- Ultra bright white LED torch
- Single AAA size battery operation

RS PRO

1233250	RS Pro IT-1 Infra-Red Thermometer	IT-1

RS Pro ICM30R AC-DC Current Clamp Multimeter

NEW

- True-RMS reading
- 4000 Count digital display
- Auto-ranging
- Dual hall sensor
- Nickel-Steel alloy jaw mechanism
- AC-DC 300 A
- AC-DC 300 A and AC-DC 600 V
- 600 V protection in every range

RS PRO

1233252	RS Pro ICM30R Digital Multimeter & Clamp	ICM30R

RS Pro RSHS800 Series Handheld Digital Oscilloscopes

NEW

- Dual-input oscilloscope, multimeter and recorder (including TrendPlot and waveform) in one instrument
- Input voltage through BNC up to CAT II 300V and CAT III 150V
- Standard probe 10X CAT II 400 V
- Oscilloscope and multimeter safety grade up to CAT II 600 V and CAT

RS PRO

1236457	HH digital oscilloscope 200MHz,2 channel	RSHS820
1236455	HH digital oscilloscope 100MHz,2 channel	RSHS810
1236456	HH digital oscilloscope 150MHz,2 channel	RSHS815
1236454	HH digital oscilloscope 60MHz,2 channels	RSHS806

Automation & Control

Type C Double Pole 10kA - System Pro M Compact

- DIN rail mounting
- Complies with BS EN 60898
- Operating temperature range of -25°C to +55°C
- Standard 35mm width
- Max. operating voltage 440Vac

ABB

131961	S200 MCB 25A 2 Pole Type C 10kA	2CDS272001R0254
132071	S200 MCB 10A 2 Pole Type C 10kA	2CDS272001R0104
132122	S200 MCB 16A 2 Pole Type C 10kA	2CDS272001R0164
131905	S200 MCB 40A 2 Pole Type C 10kA	2CDS272001R0404

11 Pin Timer, H3CR-A

- Functions - 143,211,453,521,611,612
- LED indication of power and contact status
- Reduced power consumption
- Enables easy sequence checks at any time range
- Panel Covers enable various panel designs.
- PNP input models available
- Conforms to EN61812-1 and IEC60664-1 4 kV/2 and EMC Directives.
- Approved by UL and CSA.

OMRON

1138128	DPDT 6functiontimer, 0.05sec-300hr 24-28V	H3CR-A AC24-48/DC12-48
1138134	DPDT 6 function timer, 0.05sec-300hr	H3CR-A AC100-240/DC100-125
1884562	BASE	P3GA-11

PSR Safety Relay for Two-hand Controls

- Two-channel control
- Automatic activation
- For two-hand control devices as per EN 574 type IIIC
- Concurrence monitoring 0.5 s
- 2 enabling current paths and 1 signalling current path

PHOENIX CONTACT

6667050	PSR-SCP- 24UC/THC4/2X1/1X2	2963721

Exposed Junction Thermocouples

NEW

- Thermocouple types K, J and T
- Fast response, welded exposed junction
- Teflon PTFE insulated twin-twisted lead
- IEC584 or ANSI MC96.1 Colour coded
- Miniature flat pin plug
- Tolerance Class 1 for optimum accuracy
- Ideal for test & development applications

RS PRO

1236306	Type K IEC 1/0.2mm Thermocouple+Plug 5m	Z2-K-5M-Plug IEC
1314760	THERMOCOUPLE MINI TYPE K ANSI PLUG 3M	XQ-1492
1314754	THERMOCOUPLE MINI TYPE K IEC PLUG 3M	XQ-1486
1236308	Type J IEC 1/0.2mm Thermocouple+Plug 2m	Z2-J-2M-Plug IEC

TeSys D Green LC1D Contactor

NEW

- Lower permanent consumption with reduced coil
- power and direct PLC control
- Constant operating time and reduced contacts bounces due to coil monitoring and control
- Standard dimension as TeSys D contactors
- 3 Pole
- Screw mount terminals
- IP20 front face

Schneider Electric

1353954	Contactor 32A 3P AC3 100-250VACDC coil	LC1D32KUE
1353941	Contactor 9A 3P AC3 48-130VACDC coil	LC1D09EHE
1353962	Contactor 50A 3P AC3 24VDC coil	LC1D50ABBE
1353966	Contactor 65A 3P AC3 24VDC coil	LC1D65ABBE

RM22-UA Voltage Control Relay

NEW

- Automatic AC or DC recognition
- Selection between overvoltage and undervoltage
- Monitoring of their own supply voltage measured as a true rms value
- Selectable memory function
- LED indication
- 35 mm DIN Rail mount

Schneider Electric

1240190	VOLTAGE CONTROL RELAY	RM22UB34
1240189	OVERVOLTAGE CONTROL RELAY	RM22UA33MT
1240188	OVERVOLTAGE CONTROL RELAY	RM22UA33MR
1240186	VOLTAGE CONTROL RELAY	RM22UA31MR

LOGO. 8 - Logic Modules

- LOGO. 8 Logic Modules with an integrated Web Server
- Refined screen
- 6 line display with 16 characters per line for more specific messages
- Optical emphasis of alarms
- Logic Modules are compatible for all voltages
- SIMATIC S7 communication

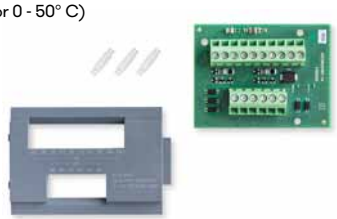
SIEMENS

8251644	Logic Module LOGO.8 12/24RCE w. display	6ED1052-1MD00-0BA8
8251653	Logic Module LOGO.8 24RCE with display	6ED1052-1HB00-0BA8
8251641	Logic Module LOGO.8 230RCE with display	6ED1052-1FB00-0BA8
8251650	Logic Module LOGO.8 230RCEO w/o display	6ED1052-2FB00-0BA8

IOT2000 Input/Output Module

NEW

- High industrial functionality & design, Arduino shield with 5x DI, 2x DO and 2x AI
- Fast assembly, as the suitable cover and fastening material are included in delivery
- Use of the industry-standard voltage ranges
- Tested environmental conditions, such as IOT2040 (e.g. for 0 - 50° C)



SIEMENS

1354133	SIMATIC IOT2000 Input/Output Module	6ES7647-0KA01-0AA2
1244037	IoT2020 Educational Intelligent Gateway	6ES7647-0AA00-0YA2
1244038	IoT2040 Industrial Intelligent Gateway	6ES7647-0AA00-1YA2

Miniature Type

- Visible operation
- Precise operating points
- Double insulation
- 1 NO and 1 NC contact
- Pre-Cabled
- Rated at: 240 Vac, 1.5 A

Telemecanique Sensors

4473840	IP66/67 limit switch w/roller plunger	XCMD2102L1
4473856	Miniature limit switch with roller lever	XCMD2145L1
8147794	Limit Switch 240 VAC 5 Amp Plastic XCMD	XCMD2515L1

Pneumatics, Hydraulics & Power Transmission

Festo LRMA Series Pressure Regulators

NEW

- Visible pressure gauge indicator
- With threaded and push in connector
- Push in connector can be rotated 360°

FESTO

1259898	Pressure Regulator 6mm	LRMA-QS-6
1259897	Pressure Regulator 4mm	LRMA-QS-4
1259899	Pressure Regulator 8mm	LRMA-QS-8

ADVC Series Double Acting Cylinders

- Double acting
- Bore from 12 mm to 40 mm
- Stroke from 5 mm to 25 mm
- Large clamping sizes for their compact size
- VDMA 24562 mounting hole pattern
- Flexible cushioning at both stroke ends
- Integrated sensor slots for proximity sensor

FESTO

1215474	Double Act Short-Stroke Cylinder 20x20mm	ADVC-20-20-I-P
1366572	Compact Short Stroke Cyl 20mm x 5mm	ADVC-20-5-I-P-A
1366591	Compact Short Stroke Cyl 32mm x 20mm	ADVC-32-20-I-P-A
1366580	Compact Short Stroke Cyl 25mm x 10mm	ADVC-25-10-I-P-A

NPQP Tube to Tube Elbow Push in Fittings

NEW

- Quick and simple tube insertion
- Manufactured from nickel plated brass
- Resistant to chemicals and temperatures
- Operates under a range of pressures

FESTO

1259727	Angled 10mm to 10mm	NPQP-L-Q10-E-FD-P10
1259724	Angled 4mm to 4mm	NPQP-L-Q4-E-FD-P10
1259726	Angled 8mm to 8mm	NPQP-L-Q8-E-FD-P10
1259725	Angled 6mm to 6mm	NPQP-L-Q6-E-FD-P10

Sintered Bronze Silencer/ Restrictor

- Ergonomically designed bow handles with PVC grip provide maximum leverage and comfort

Parker Legris

722283	Pneumatic sintered bronze silencer,G1/4	0670 00 13
722261	Pneumatic sintered bronze silencer,M5	0673 00 19
6192105	Silencer male 1in. BSPP	0670 00 34
724942	Sintered bronze restrictor/silencer,G1/4	0672 00 13

O-Ring Kit Nitrile Imperial

- O-ring kit with a selection of imperial sizes made from Nitrile.
- Cost effective and suitable for use with many substances including oils, gasoline, hydrocarbons, etc.
- Essential for emergencies and quick repairs

RS PRO

756028	Imperial nitrile O-ring kit	IMPERIAL O RING KIT

RS Pro Polyurethane Hose

- Silcone Free
- 4:1 Safety factor
- 95/98 Shore A hardness
- Can be used with pneumatic push-in fittings
- Resistant to kinks
- FDA compliant

RS PRO

9172369	Polyurethane Tube, Black 4mm ID , 6mm OD	CT019-004-PU-BK-01
9172387	Polyurethane Tube, Blue, 4mm ID, 6mm OD	CT019-004-PU-BL-01
9172404	Polyurethane Tube, Clear 5mm ID, 8mm OD	CT008-004-PU-NT-01
9172432	Polyurethane Tube, 2.5mm ID 4mm OD	CT023-004-PU-YE-02

Deep Groove Metric Ball Bearings - Shielded

- Primarily intended for applications where the bearing inner ring rotates
- If the outer ring rotates there is a danger that grease may be lost from the bearing at high speeds
- Both standard and C3 clearance available

SKF

6670995	Bearing, ball, shield, 12mm ID, 28mm OD	6001-2Z/C3
6671059	Bearing, ball, shield, 30mm ID, 62mm OD	6206-2Z/C3
6671052	Bearing, ball, shield, 20mm ID, 47mm OD	6204-2Z/C3
6671116	Bearing, ball, shield, 40mm ID, 90mm OD	6308-2Z/C3

Compact Tube Cutters, TK Series

- Perpendicular cutting
- Safety lock mechanism
- Reduced operating force

SMC

6679400	Pocket tube cutter for 12mm tube max	TK-3
6679390	Tube cutter for 18mm tube max	TK-2
6679396	Tube cutter for 13mm tube max	TK-1

IRV Series Vacuum Regulator

- Use between vacuum pump and suction cup to regulate vacuum line pressure
- Single sided connections series
- Mass reduced by 20%
- Integrated digital pressure switch for panel mounting
- Built-in one-touch fittings

SMC

7150739	Vac regulator 6mm with gauge & bracket	IRV10-C06BG
8514327	Vacuum Regulator, 1/4 Inch Fitting	IRV10-N07
8514510	Vacuum Regulator, W.Bracket and Gauge	IRV10-LN07BG

Cables & Wires

Unshielded Multi-Conductor Industrial Cable

- Tinned copper conductors that resist corrosion
- Stranded conductors for installation flexibility

AlphaWire

8282250	22 AWG 2 core 300V unshielded cable 30m	1172C SL005
8282386	16 AWG 2 core 300V unshielded cable 30m	1899C SL005
8282308	20 AWG 2 core 300V unshielded cable 30m	1895C SL005

EcoWire™

- Fully Recyclable
- Up to 45% smaller diameter than PVC
- Up to 40% lighter than other insulation materials
- Excellent dielectric strength
- Low specific gravity
- Flame retardant to UL VW-1 rating

AlphaWire

6877682	Eco wire 10awg 105/30 black 600V	6719 BK005
6877496	Eco wire 20awg 10/30 black 600V	6714 BK005
6877348	Eco wire 28awg 7/36 black 600V	6710 BK005

RG58C/U

- 18mm tinned copper stranded conductor
- Solid polyethylene insulation
- Tinned copper braid
- Sheathed in PVC

BELDEN

5218436	Cable Coax RG58 C/U LSF black 100m	MRG5801.10100
5218278	Cable Coax RG58 C/U PVC black 100m	MRG5800.10100
5218335	Cable Coax RG58 C/U PVC black 500m	MRG5800.00500

URM70

- 7/0.19mm plain copper stranded conductor, solid polyethylene insulation, plain copper braiding and sheathed in black PVC
- Attenuation per 10m is 1.5dB at 100MHz, 5.2dB at 1000MHz

BELDEN

5218199	Cable Coax URM70 PVC black 100m	URM70.10100
5218313	Cable Coax URM70 PVC black 500m	URM70.00500

T Series Standard Cable Ties

- Quick, simple fixing by hand or processing tool
- Available in various materials, colours and sizes
- Inside serration for a strong hold onto bundles
- Operating temperature range: -40 to +85°C

HellermannTyton

1904212	Natural nylon cable tie 100x2.5mm	111-01919
1703902	Black nylon cable tie 200x4.6mm	111-05014
1703918	Black nylon cable tie 200x4.6mm	111-05014

Olflex Control TM CY NFPA 70/79 Cable

- Easy installation due to omission of closed raceways (suitable for open wiring)
- Flame retardant
- Cold resistant
- Good mechanical resistance
- Oil resistant

LAPP GROUP

8079732	OLFLEX CONTROL TM CY NFPA 70/79 4C 1.5mm	281604CY
8079714	OLFLEX CONTROL TM CY NFPA 70/79 4C 2.5mm	281404CY
8079704	OLFLEX CONTROL TM CY NFPA 70/79 4C 4mm	281204CY
8079697	OLFLEX CONTROL TM CY NFPA 70/79 4C 10mm	280804CY

Kynar™ Wrapping Wire

- Voltage rating 150V r.m.s.
- Temperature range: -20°C → +130°C
- Resists run back when soldering

RS PRO

2094849	Black Kynar(TM) wrapping wire, 30awg 50m	KYNAR WIRE 30AWG 50M BLACK
2094811	Red Kynar(TM) wrapping wire, 30awg 50m	KYNAR WIRE 30AWG 50M RED
2094827	White Kynar(TM) wrapping wire, 30awg 50m	KYNAR WIRE 30AWG 50M WHITE
2094833	Green Kynar(TM) wrapping wire, 30awg 50m	KYNAR WIRE 30AWG 50M GREEN

Multicore Overall Foil Screen Cable

- Multi-conductor data cables with an overall foil screen
- Suitable for RS-232 applications, computer interconnection, and point of sale equipment
- Main application: RS-232, Computer interconnection, POS equipment

RS PRO

1223062	4 core Overall Foil Scrn Cable, 500m	4114
1223060	10 core Overall Foil Scrn Cable, 100m	4112
1223061	4 core Overall Foil Scrn Cable, 100m	4113

Clear TFER Heat Shrink Tubing

- Thin wall, flexible, and transparent
- Shrink ratio of 3.2:1
- High flame and chemical resistance
- High mechanical strength and low coefficient of friction

TE connectivity

1706311	High temp heatshrink tubing,12.7mm i/d	TFER-1/2-X
1706298	High temp heatshrink tubing,6.4mm i/d	TFER-1/4-X
1706282	High temp heatshrink tubing,3.2mm i/d	TFER-1/8-X
1706333	High temp heatshrink tubing,25.4x7.1mm	TFER-1-X

Safety, Security, ESD Control & Clean Room

6000 Series Gas & Vapour ABEK1 Filters

- Vehicle manufacture
- Aircraft manufacture and repair/refurbishment
- Refrigeration equipment manufacture and maintenance
- During manufacture and use of inks, dyes, adhesives, resins, varnishes and paints
- Whilst spraying and handling agrochemicals

3M

2872677	ABEK1 6059 respirator combination filter	6059

3M™ Low Maintenance Full Face Mask, 6000 Series

- Full face respirators, series 6000
- Impact resistant polycarbonate visor gives excellent visibility and a wide field of vision
- Dual filter design for balanced weight distribution and greater comfort
- Comfortable fit and easy adjustment

3M

2867164	6900S full face large respirator	6900
2867142	6800S full face medium respirator	6800
2867136	6700S full face small respirator	6700

Ultrafit 20

- Corded ear-plugs, washable up to 50 times
- Ultrafit 20 - SNR 20, HML = 25,17,10
- Colour: Yellow
- Standards: EN352-2

3M E-A-R™

5386854	E.A.R. ultrafit 20 corded ear plugs,	UF-01-012

G3000 Peak/No Peak Safety Helmet

- EN397 with additional approvals for electrical insulation (440V) and low temperature (-30°C)
- Well ventilated with 12 pairs 3x2mm slots extending over 130mm
- Excellent impact absorption and distribution
- Head size: 54-62cm

3M E-A-R™

4949791	Safety helmet G3000,white	G3000C VI
4949820	Safety helmet elasticated chinstrap	GH-1
4949814	Safety helmet G3000,blue	G3000C BB
4949808	Safety helmet G3000,yellow	G3000C GU

Contour Safety Glasses

- Super lightweight model (only 21g) which offers continual comfort, even if worn for long periods of time
- Sports shaped temples for maximum comfort
- Tipgrip side arms to ensure they do not slip
- Panoramic field of vision
- Integral side shield
- Provide 100% UVA

bollé SAFETY

7688736	Contour Clear Lens Safety Glasses	CONTPSI

Stockton Super Safety Trainer

- Padded Collar and Tongue
- Dual Density Polyurethane Sole
- Antistatic and Energy Absorbent Heel
- Steel Toe-Cap to EN20345 (200 Joules)

Dickies

7122725	Stockton Super Safety Trainer Size 9	FA13335 Stockton Super Safety Trainer S1-P Size 9
7122712	Stockton Super Safety Trainer Size 7	FA13335 Stockton Super Safety Trainer S1-P Size 7
7122716	Stockton Super Safety Trainer Size 8	FA13335 Stockton Super Safety Trainer S1-P Size 8

Earth Bonding Brackets

- Fits under the bench
- Connects operators and other elements of the EPA to ground
- Complete with 2m earth lead
- Moulded from ABS with rounded corners
- Supports ESD S20.20 and EN 61340-5-1 ESD control programme compliance

RS PRO

2983913	Earth bonding bracket,2x4mm/1x10mm stud	LSB-P01/03
2877492	Earth bonding bracket,3x10mm stud	LSB-P01/01
2877509	Earth bonding bracket,3x4mm banana	LSB-P01/02

Antistatic Pink Bags

- Pink anti static bag 300 gauge / 75 micron
- Designed for non ESD sensitive components and assemblies
- Not recommended for ESD sensitive components
- Antistatic bags are blow-moulded with antistatic additives from Low Density Polyethylene (LDPE)

RS PRO

2877868	Antistatic pink bag,100x155mm	ANTISTATIC BAGS 101X152MM
2877931	Antistatic pink bag,305x406mm	ANTISTATIC BAGS 305X406MM
2877874	Antistatic pink bag,152x203mm	ANTISTATIC BAGS 152X203MM

3M Static Meter model 718

- Measure static voltages on objects and surfaces arising from electrostatic charge build-ups
- Help identify ESD trouble-spots
- Lightweight, compact design
- Digital, LCD (liquid-crystal) display is easy to read & updates quickly

SCS Static Control Solutions

8380705	Static Sensor	718

Tools & Enclosures

SMT Flux Pen (No-Clean, VOC Free)

- Fine control allows minimal flux application resulting in negligible post-soldering residue
- The flux has been formulated to pass Bellcore TR-NWT-00078 for Electromigration and Surface Insulation resistance and IPC-SF-818 Class 3

Multicore

4259379	SMT VOC free no clean flux pen	428532

10-piece set of hinged ratchet combination spanners

- Set of reversible ratchet system combination spanners with hinged head
- Small recovery angle of 5°
- Ideal for work on site thanks to its hinged pocket case
- Contains 10 spanners: 467.8-10-11-12-13-14-16-17-18-19 mm

FACOM

6758966	10 COMBINATION SPANNER SET 467F	467F.JP10

Magnastat Soldering Irons - 'W' Range

- Available in 120V and 230V versions, 230V irons have fitted plug
- Temperature range 260°C to 480°C in steps of 55°C, determined by tip selection
- Temperature accuracy ±10% of nominal temperature
- 1.5m long mains lead

Weller

3374102	W range Magnastat solder iron,230V 60W	W 61
3374118	W range Magnastat solder iron,230V100W	T0056104399N
660309	W range Magnastat solder iron,230V 200W	W 201

Tin-Ag-Cu Alloy Lead Free Solders

- Resin-based SAC305 Lead-free solder wire
- Leaves low level of clear flux residue
- Wets well to all PCB and component finishes
- Ideal for all lead-free applications
- Utilising a synthetically refined resin
- Effective activator package

RS PRO

7568884	Tin-Ag-Cu alloy lead free solder, 0.7mm	SAC305 NC600 2.2 0.7 250g
7568875	Tin-Ag-Cu alloy lead free solder, 0.4mm	SAC305 NC600 2.2 0.4 250g

RS Pro Engineers Pliers

- Induction hardened with a natural finish to ensure a long, reliable working life
- Ergonomically designed bow handles with PVC grip provide maximum leverage and comfort

RS PRO

5417071	120MM SNIPE NOSE PLIERS	KERS-SNPM
5417043	SNIPE NOSE 160MM	KERS-CNP
5417093	140MM RADIO PLIER	KERS-PCNM

RS Soldering Station AT90DH

NEW

- Large LCD display, with backlight
- Soldering Iron heats from room temperature to 350°C
- Built in 'sleep mode' function

RS PRO

7998941	AT90DH, Soldering Station, 220V, +100°C to +500°C / 799-8941	SS-989B

Bahco Non-sparking Double Open Ended Spanner

NEW

- Open-end wrench, for tightening of two different sizes of bolts and nuts
- Material: Aluminium Bronze
- Non-sparking
- Die-forged
- Fulfilling product standard DIN 895

BAHCO

1248000	NS DOUBLE OPEN-ENDED AL-BR 12-13MM	NS006-1213
1248003	NS DOUBLE OPEN-ENDED AL-BR 14-15MM	NS006-1415
1248014	NS DOUBLE OPEN-ENDED AL-BR 19-24MM	NS006-1924

Standard Storage Bins

- Bins with smooth clean inside faces
- Can be stacked for ease of handling
- Moulded in card holder - each pack supplied with sufficient index cards

RS PRO

4844056	Blue polyprop storage bin,150x240x130mm	011734
4844107	Blue polyprop storage bin,205x350x130mm	011744
4844028	Blue polyprop storage bin,101x167x76mm	011724
3505845	Red storage bin,510x315X200mm	011772

Pro Organiser Case - adjustable

- Tough transparent lid with anti-migration bars to ensure small parts stay in place
- 17 sections - 5 fixed
- 12 adjustable dividers supplied
- Secure double lock

Terry

4350179	Pro organiser case,395x305x60mm	TO16BLACK
4350191	Pro organiser case,510x330x60mm	TO24

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SINGAPORE

+65 6865 3400
quote.sg@rs-components.com

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onlinehelp.ph@rs-components.com

ph.rs-online.com

TAIWAN

0800 088 238
onlinehelp.tw@rs-components.com

twcn.rs-online.com
twen.rs-online.com

INDONESIA, VIETNAM, CAMBODIA & BRUNEI

+852 2610 6426 / +852 9737 6892
jimson.chiew@rs-components.com

sg.online.com

MALAYSIA

+603 5021 5888
onlinehelp.my@rs-components.com

my.rs-online.com

THAILAND

+66 2 648 6868
onlinehelp.th@rs-components.com

th.rs-online.com

SOUTH KOREA

007 988 521 6580 / +82 10 9324 4432
william.choi@rs-components.com

kr.rs-online.com