

1280 Enterprise Series

Programmable Color Touchscreen Weight Indicator/Controller



Standard Features

- Seven-inch, 800 x 480 pixel, graphical color display that adjusts for ambient light conditions
- Twelve-inch, 1280 x 800 pixel, graphical color display that adjusts for ambient light conditions
- Highly customizable graphical user interface
- Three different enclosure types: universal with tilt stand, panel mount and wall mount
- Resistive color touchscreen that can be used with gloves
- On-screen keyboard available during entry mode or use an external keyboard
- Multi-language operation and text entry
- Keypad for scale operations, numeric entry and navigation
- More than 150 built-in functions for programming
- Customize applications and data tables with iRite™ software
- Built-in web server for remote access, systems integration and data monitoring
- Up to eight scales supporting five scale types:
 - Analog load cell scales
 - Total scales
 - Serial scales
 - Program scales
 - iQube2 scales
- Multi-range/interval weighing functions
- Eight digital I/O for control and pulse count
- 100 setpoints, 18 configurable setpoint types
- 22 soft keys with 10 user-defined
- Two RS-232 and RS-485 serial ports
- USB, Ethernet TCP/IP, Wi-Fi Direct(r) and Bluetooth® ports

Options

- Six option slots that support:
 - A/D scale channels
 - Analog Input/Thermocouple
 - Digital input and outputs
 - Analog outputs
 - Serial ports
 - Four channel dry-contact relay
 - Various protocol interfaces

Approvals*



Measurement
Canada
Approved



* Touch-only units
pending approvals

Specifications

Power:

AC voltages: 100-240VAC; 50-60 Hz
DC voltages: 11-30VDC
Consumption: 60W

Excitation Voltage:

10 ± 0.5VDC
16 x 350Ω or 16 x 700Ω load cells per A/D card

Analog Signal Input Range:

-60 mV to 60 mV

Analog Signal Sensitivity:

0.3 μV/graduation minimum at 7.5 Hz–120 Hz
1.0 μV/graduation recommended

A/D Sample Rate:

7.5 to 960 Hz, software selectable

Resolution:

Internal: 8 million counts
Display: 9,999,999

System Linearity

± 0.01% full scale

Digital I/O:

Eight I/O channels on CPU board; optional serial ports:
24-channel I/O expansion boards available

Communication Ports:

Port 1 & 2: Full duplex RS-232 with CTS/RTS, RS-422/485
Baud Rate: 1200 to 115200
Port 3: USB 2.0 Device (Micro)
Port 4: Bluetooth® SPP 2.1+EDR, Standards 4Mbaud
USB Host: (2) Type A Connectors max 500 mA
Ethernet: Wired 10/100 Auto-MDX
Ethernet: Wireless 802.11 b/g/n 2.4GHz

Onboard:

Selectable filters: Three stage, Adaptive or Damping
Embedded Linux® OS
8 GB eMMC (system use)
1 GB DDR3 RAM
460 MB onboard database (SQLite) storage
Up to 32 GB micro SD card (sold separately)

Display:

Seven-inch, 800 x 480 pixel, graphical color TFT display 500 or 1000 NIT
Twelve-inch, 1280 x 800 pixel, graphical color TFT display 1500 NIT

Keys/Buttons:

22-key membrane panel, tactile buttons, on-screen keyboard for text and numeric entry, USB port for flash drive, keyboard and printer

Temperature Range

Certified: 14°F to 104°F (-10°C to 40°C)
Operating: -4°F to 131°F (-20°C to 55°C)

Weight:

Universal enclosure: 11 lb (4.9 kg)
Panel mount enclosure: 8 lb (3.6 kg)
Wall mount enclosure: 23 lb (10.4 kg)
Panel mount 7 in touch-only enclosure: 7 lb (3.1 kg)
Panel mount 12 in touch-only enclosure: 10 lb (4.5 kg)

Rating/Material:

IP66 stainless steel wall enclosure
IP69K stainless steel universal and panel mount door

Warranty:

Two-year limited warranty

EMC Immunity:

EN 50082 Part 2 IEC EN 61000-4-2, 3, 4, 5, 6, 8, and 11

Approvals:

NTEP CC 15-00/Class III/III 10,000d
Measurement Canada AM-5980C,
Class III/III HD 10,000d
OIML R76/2006-NL1-16.04 Class III/III 10,000d
EU Test Certificate TC8596
UL/cUL Listed (universal)
UL/cUL Recognized (panel mount)
CE Marked

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7-inch model with keypad

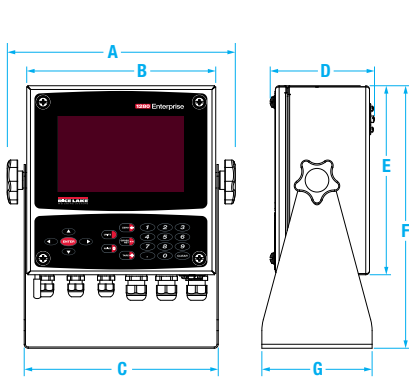


7-inch touch-only model

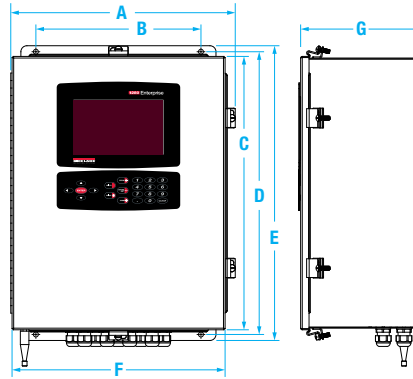


12-inch touch-only model

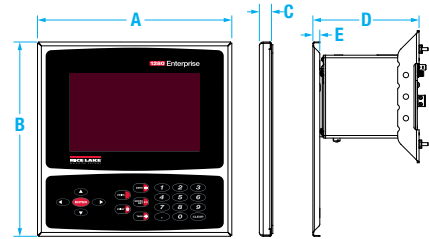
Numeric Keypad Models:



1280-2



1280-3



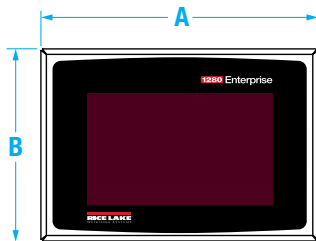
1280-4

| Universal (1280-2) Dimensions | |
|-------------------------------|---------------------|
| A 10.86 in (276 mm) | B 6.22 in (158 mm) |
| C 9.24 in (235 mm) | D 4.97 in (126 mm) |
| E 9.00 in (229 mm) | F 12.50 in (318 mm) |
| G 5.25 in (133 mm) | |

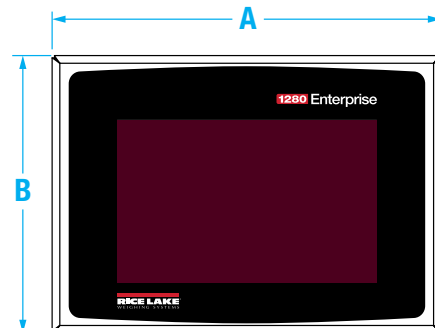
| Wall Mount (1280-3) Dimensions | |
|--------------------------------|---------------------|
| A 14.92 in (379 mm) | B 11 in (279 mm) |
| C 18.22 in (463 mm) | D 18.84 in (479 mm) |
| E 19.64 in (499 mm) | F 14.20 in (361 mm) |
| G 8.08 in (205 mm) | |

| Panel Mount (1280-4) Dimensions | |
|---------------------------------|--------------------|
| A 9.00 in (229 mm) | B 9.00 in (229 mm) |
| C 0.58 in (15 mm) | D 5.34 in (136 mm) |
| E 0.32 in (8 mm) | |

Touch-only Models:



1280-5



1280-6

| 7-inch Touch-only (1280-5) Dimensions | |
|---------------------------------------|--------------------|
| A 9.00 in (229 mm) | B 6.22 in (158 mm) |

| 12-inch Touch-only (1280-6) Dimensions | |
|--|------------------|
| A 14.00 in (356 mm) | B 10 in (254 mm) |

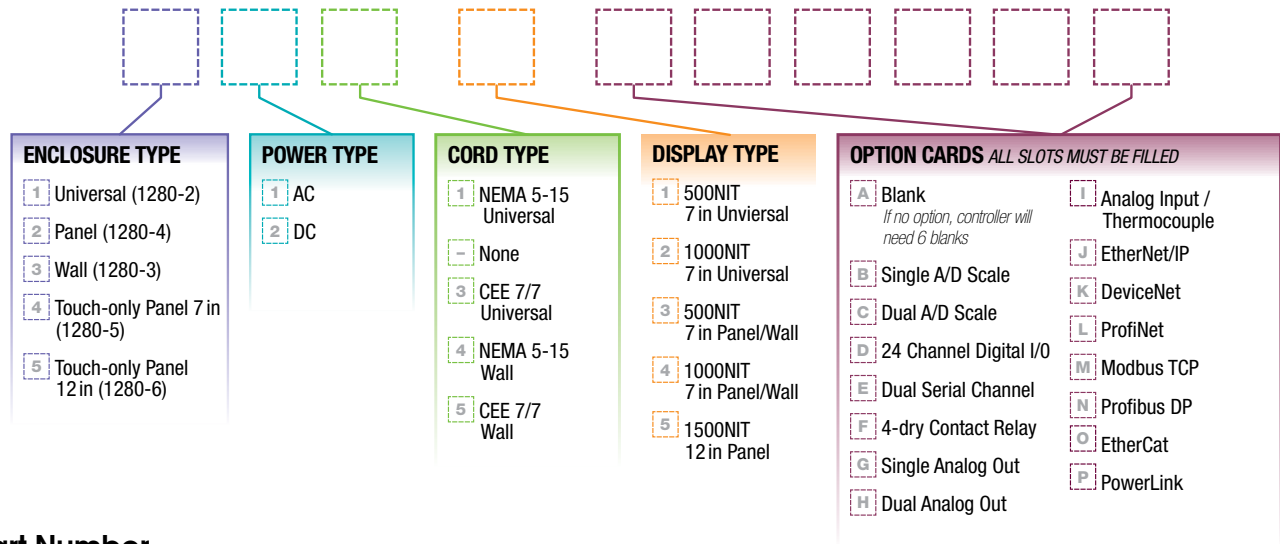
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INDICATORS / CONTROLLERS

Generate a 1280 Enterprise Series Model Reference Code

This reference number can be used at time of ordering.



- ENCLOSURE TYPE**
- 1 Universal (1280-2)
 - 2 Panel (1280-4)
 - 3 Wall (1280-3)
 - 4 Touch-only Panel 7 in (1280-5)
 - 5 Touch-only Panel 12 in (1280-6)

- POWER TYPE**
- 1 AC
 - 2 DC

- CORD TYPE**
- 1 NEMA 5-15 Universal
 - None
 - 3 CEE 7/7 Universal
 - 4 NEMA 5-15 Wall
 - 5 CEE 7/7 Wall

- DISPLAY TYPE**
- 1 500NIT 7 in Universal
 - 2 1000NIT 7 in Universal
 - 3 500NIT 7 in Panel/Wall
 - 4 1000NIT 7 in Panel/Wall
 - 5 1500NIT 12 in Panel

- OPTION CARDS ALL SLOTS MUST BE FILLED**
- A Blank
If no option, controller will need 6 blanks
 - B Single A/D Scale
 - C Dual A/D Scale
 - D 24 Channel Digital I/O
 - E Dual Serial Channel
 - F 4-dry Contact Relay
 - G Single Analog Out
 - H Dual Analog Out
 - I Analog Input / Thermocouple
 - J EtherNet/IP
 - K DeviceNet
 - L ProfiNet
 - M Modbus TCP
 - N Profibus DP
 - O EtherCat
 - P PowerLink

Part Number

| Part # | Reference # | Description | Power | Display | Option Installed | Price |
|--|-------------|-----------------------|-------------|----------|-------------------|---------|
| Universal Enclosure with 500 NIT Display (1280-2) | | | | | | |
| 171427 [†] | 1111BAAAAA | 1280 Universal | 115 VAC | 500 NIT | Single Scale Card | Consult |
| 171441 ^{††} | 1131BAAAAA | 1280 Universal | 100-240 VAC | 500 NIT | Single Scale Card | Consult |
| 171662 [†] | 1111CAAAAA | 1280 Universal | 115 VAC | 500 NIT | Dual Scale Card | Consult |
| 172188 ^{††} | 1131CAAAAA | 1280 Universal | 100-240 VAC | 500 NIT | Dual Scale Card | Consult |
| Panel Mount Enclosure with 500 NIT Display (1280-4) | | | | | | |
| 171663 | 21-3BAAAAA | 1280 Panel Mount | 100-240 VAC | 500 NIT | Single Scale Card | Consult |
| 172186 | 21-3CAAAAA | 1280 Panel Mount | 100-240 VAC | 500 NIT | Dual Scale Card | Consult |
| Wall Mount Enclosure with 500 NIT Display (1280-3) | | | | | | |
| 173673 [†] | 3143BAAAAA | 1280 Wall Mount | 115 VAC | 500 NIT | Single Scale Card | Consult |
| 174143 ^{††} | 3153BAAAAA | 1280 Wall Mount | 100-240 VAC | 500 NIT | Single Scale Card | Consult |
| 174144 [†] | 3143CAAAAA | 1280 Wall Mount | 115 VAC | 500 NIT | Dual Scale Card | Consult |
| 174145 ^{††} | 3153CAAAAA | 1280 Wall Mount | 100-240 VAC | 500 NIT | Dual Scale Card | Consult |
| Wall Mount Enclosure with 1000 NIT Display (1280-3) | | | | | | |
| 172184 [†] | 3144BAAAAA | 1280 Wall Mount | 115 VAC | 1000 NIT | Single Scale Card | Consult |
| 172185 ^{††} | 3154BAAAAA | 1280 Wall Mount | 100-240 VAC | 1000 NIT | Single Scale Card | Consult |
| 173806 [†] | 3144CAAAAA | 1280 Wall Mount | 115 VAC | 1000 NIT | Dual Scale Card | Consult |
| 172187 ^{††} | 3154CAAAAA | 1280 Wall Mount | 100-240 VAC | 1000 NIT | Dual Scale Card | Consult |
| Touch-only 7 inch with 500 NIT Display (1280-5) | | | | | | |
| 186618 | 41-3BAAAAA | 1280 Touch-only 7 in | 100-240 VAC | 500 NIT | Single Scale Card | Consult |
| Touch-only 12 inch with 1500 NIT Display (1280-6) | | | | | | |
| 186465 | 51-5BAAAAA | 1280 Touch-only 12 in | 100-240 VAC | 1500 NIT | Single Scale Card | Consult |

† NEMA 5-15 plug †† CEE 7/7 plug (Euro)

www.ricelake.com | Phone: 800-472-6703

RICE LAKE

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Single A/D Scale



Excitation Voltage:
10 VDC bi-polar, 4 or 6 wire sensing
16 x 350 ohms per channel
Analog Input Signal:
-10 to +40 mV

| Part # | Description | Price |
|--------|------------------|---------|
| 164085 | Single scale A/D | Consult |
| 163407 | Board only | Consult |
| 166957 | A/D sealing kit | Consult |

Dual A/D Scale



Excitation Voltage:
10 VDC bi-polar, 4 or 6 wire sensing
8 x 350 ohms per channel
Analog Input Signal:
-10 to +40 mV

| Part # | Description | Price |
|--------|-----------------|---------|
| 164683 | Dual scale A/D | Consult |
| 160760 | Board only | Consult |
| 166957 | A/D sealing kit | Consult |

Digital I/O



24 channels, configurable as inputs or outputs
Inputs: 5 VDC max, active low; Outputs: 20 mA max per channel, active low; 5 VDC source available: 500 mA max

| Part # | Description | Price |
|--------|-------------|---------|
| 164684 | Digital I/O | Consult |
| 160761 | Board only | Consult |

For 24 I/O ribbon cable required.

Dual Serial Channel



Two-channel, full duplex RS-232 with CTS/RTS, RS-485 or RS-422, 1200-115200 baud

| Part # | Description | Price |
|--------|---------------------|---------|
| 164685 | Dual serial channel | Consult |
| 162930 | Board only | Consult |

Single Analog Out



16 bit, voltage output 0-10 VDC, current output 0-20mA, 4-20mA

| Part # | Description | Price |
|--------|-------------------|---------|
| 165366 | Single analog out | Consult |
| 164704 | Board only | Consult |

Dual Analog Out



16 bit, voltage output 0-10 VDC, current output 0-20mA, 4-20mA

| Part # | Description | Price |
|--------|-----------------|---------|
| 164686 | Dual analog out | Consult |
| 162931 | Board only | Consult |

Relay Card



Relay four-dry contact, max current 3A @ 30 VDC, 3A @250VAC

| Part # | Description | Price |
|--------|-------------|---------|
| 164689 | Relay card | Consult |
| 164974 | Board only | Consult |

Analog Input / Thermocouple



Analog Input Signal:
±10VDC, ±100mV, 0-20mA
Thermocouple Types:
E, J, K, N, T

| Part # | Description | Price |
|--------|-------------------|---------|
| 164687 | Dual analog input | Consult |
| 162932 | Board only | Consult |

Data Exchange with PLC/DCS Systems

EtherNet/IP



| Part # | Description | Price |
|--------|-------------------------|---------|
| 165792 | EtherNet/IP | Consult |
| 152357 | EtherNet/IP Module only | Consult |
| 164756 | Host board only | Consult |

DeviceNet



| Part # | Description | Price |
|--------|-----------------------|---------|
| 165793 | DeviceNet | Consult |
| 152360 | DeviceNet module only | Consult |
| 164756 | Host board only | Consult |

Profinet



| Part # | Description | Price |
|--------|----------------------|---------|
| 165794 | Profinet | Consult |
| 152355 | Profinet module only | Consult |
| 164756 | Host board only | Consult |

Modbus TCP



| Part # | Description | Price |
|--------|------------------------|---------|
| 165796 | Modbus TCP | Consult |
| 152359 | Modbus TCP module only | Consult |
| 164756 | Host board only | Consult |

Profibus DP



| Part # | Description | Price |
|--------|----------------------|---------|
| 165795 | Profibus DP | Consult |
| 152358 | Profibus module only | Consult |
| 164756 | Host board only | Consult |

EtherCAT



| Part # | Description | Price |
|--------|------------------|---------|
| 179533 | EtherCAT | Consult |
| 163295 | Module, EtherCAT | Consult |
| 164756 | Host board only | Consult |

PowerLink



| Part # | Description | Price |
|--------|-----------------------|---------|
| 182319 | PowerLink | Consult |
| 183004 | PowerLink module only | Consult |
| 164756 | Host board only | Consult |

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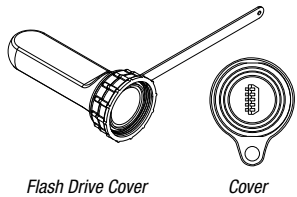
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Grayhill Relays and Racks

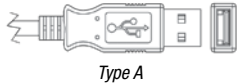
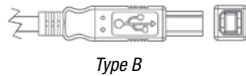
| Part # | Description | Price |
|--------|--|---------|
| 52332 | Two-channel input relay, 2.5-28 VDC | Consult |
| 52318 | Two-channel input relay, 120 VAC | Consult |
| 52319 | Two-channel input relay, 240 VAC | Consult |
| 52331 | Two-channel input relay, 10-32 VDC | Consult |
| 52316 | Two-channel output relay, 120-140 VAC at 2 amp | Consult |
| 52317 | Two-channel output relay, 240-280 VAC at 7 amp | Consult |
| 71376 | Two-channel output relay, 3-60 VDC at 1 amp | Consult |
| 71377 | Two-channel output relay, 0-200 VDC/VAC at 1.5A/10W (dry contact) | Consult |
| 84698 | Two-channel output relay, inductive load, 120-140 VAC at 2A | Consult |
| 84699 | Two-channel output relay, inductive load, 240-280 VAC at 2A | Consult |
| 52312 | Eight-channel relay rack, panel mount and wall mount, requires 50-Pin flat or round ribbon cable - 4 slots | Consult |
| 52314 | 16-channel relay rack, panel mount and wall mount, requires 50-Pin flat or round ribbon cable - 8 slots | Consult |
| 52315 | 24-channel relay rack, panel mount and wall mount, requires 50-Pin flat or round ribbon cable - 12 slots | Consult |
| 170008 | Cable, 60-Pin flat ribbon w 50-Pin adapter, 24 in length | Consult |
| 170009 | Cable, 60-Pin round w 50-Pin adapter, 60 in length | Consult |
| 170736 | Cable, 60-Pin round w/ cord grip and 50-Pin adapter | Consult |

Options

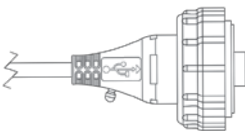
| Part # | Description | Price |
|-----------------------------|--|---------|
| Manuals and Software | | |
| 77925 | Revolution scale software | Consult |
| 166046 | Manual, Operation | Consult |
| 167659 | Manual, Technical | Consult |
| 167660 | CD, 1280 Documents | Consult |
| 164939 | 8 GB Micro SD card with SD and USB adapter | Consult |
| 173046 | USB flash drive, 1 GB | Consult |



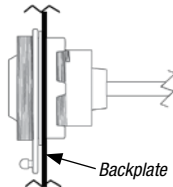
Unsealed Connectors



Sealed Connector



Sealed Receptacle



Options

| Part # | Description | Price |
|--------------------------------|--|---------|
| Primary Component Parts | | |
| 163400 | 7 in 500 NIT display | Consult |
| 163399 | 7 in 1000 NIT display | Consult |
| 182992 | 12 in 1500 NIT display | Consult |
| 160757* | CPU board assembly | Consult |
| 160758 | Back Plane board assembly | Consult |
| 162693 | AC power supply board | Consult |
| 162694 | DC power supply board | Consult |
| 164121 | Overlay, keypad, for panel & wall mount | Consult |
| 164120 | Overlay, touchscreen, for panel & wall mount | Consult |
| 161731 | Overlay, keypad, for universal | Consult |
| 161730 | Overlay, touchscreen, for universal | Consult |
| 178498 | Overlay, touchscreen, for 7 in touch-only panel mount | Consult |
| 176126 | Overlay, touchscreen, for 12 in touch-only panel mount | Consult |

The fan plate (PN 169350) will need to be updated if replacing CPU version A, B or C

Options/Accessories

| Part # | Description | Connector Type | | | | Price |
|--|--|----------------|---|----------|---|---------|
| | | Sealed | | Unsealed | | |
| USB Cables (Note: Cables have a plug) | | | | | | |
| | | A | B | A | B | |
| 152434 | Unsealed connectors USB-A to USB micro A, 2 m cable | | | X | | Consult |
| 79074 | Unsealed connectors USB-A to USB-B, 2 m cable | | | X | X | Consult |
| 124700 | Sealed connectors, USB-A to USB-B, 3 m IP68 cable | X | X | | | Consult |
| 126477 | Sealed connector USB-A to unsealed connector USB-A, 3 m IP68 cable | X | | X | | Consult |
| 124701 | Sealed connector USB-A to unsealed connector USB-B, 3 m IP68 cable | X | | | X | Consult |
| 124702 | Sealed connector USB-B to unsealed connector USB-A, 3 m IP68 cable | | X | X | | Consult |
| USB Receptacles (Note: Receptacles have a socket) | | | | | | |
| 176790 | Sealed receptacle USB-A for panel mount, 0.75 m cable | X | | | | Consult |
| 126476 | Sealed receptacle USB-A for wall mount, 0.5 m cable | X | | X | | Consult |
| 172735 | Sealed receptacle USB-A for universal, 0.25 m cable | X | | X | | Consult |
| 124694 | Cover for sealed receptacles | | | | | Consult |
| 124689 | Cover for flash driver mounts on sealed receptacle | | | | | Consult |
| Ethernet Cables | | | | | | |
| | | Sealed | | Unsealed | | |
| 72697 | Unsealed Ethernet, RJ45 to RJ45, 2 m cable | | | | X | Consult |
| 124706 | Sealed to sealed Ethernet 3 m cable | X | | | | Consult |
| 124707 | Sealed to unsealed Ethernet 3 m cable | X | | X | | Consult |
| Ethernet Receptacles | | | | | | |
| | | Sealed | | Unsealed | | |
| 176789 | Sealed receptacle Ethernet RJ-45, 0.75 m cable | X | | | | Consult |
| 172734 | Sealed receptacle Ethernet RJ-45, 0.5 m cable | X | | | | Consult |
| 126353 | Sealed receptacle Ethernet RJ-45, 0.25 m cable | X | | | | Consult |