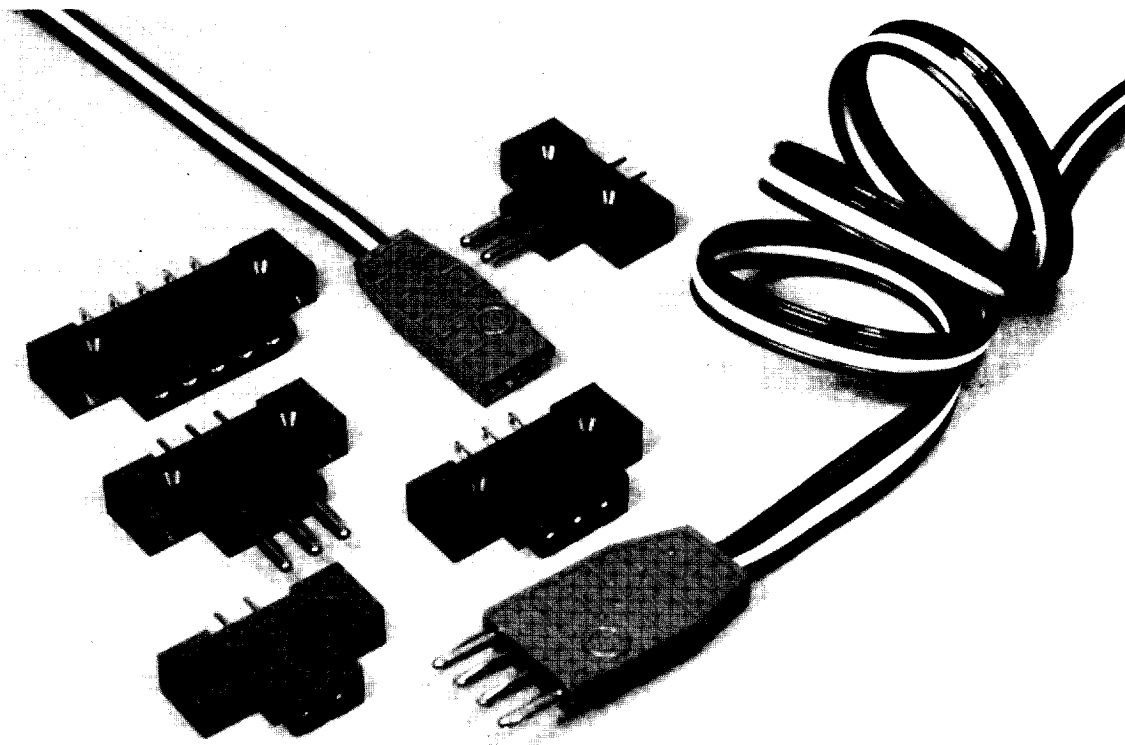

2 mm dia. CONTACT BLOCKS & PATCH LEADS

PRESENTATION

This series of products consists of :

- contact blocks
- polarized contact blocks
- patch leads
- polarized patch leads



Applications :

- Electronics*
- Laboratories and Education*
- Telecommunications.*

2 mm dia. CONTACT BLOCKS & PATCH LEADS

PRESENTATION

This series comprises link contact blocks and patch leads with :

- Excellent contact**
- Sturdy construction**
- Contact polarization options**
- Low bulk**
- High retention.**

FL contact blocks and ML patch leads are fitted with 2 mm dia. male pins or female sockets.

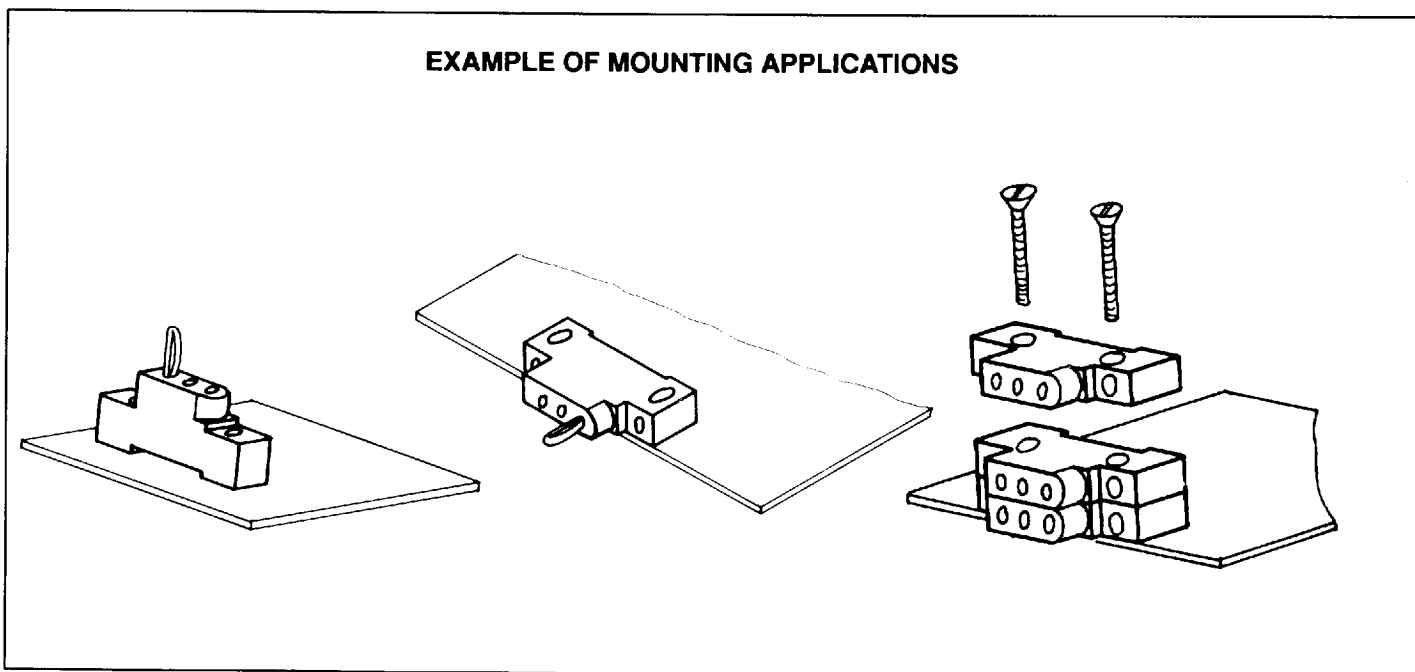
CHARACTERISTICS

| | | |
|-----------------------------------|-----------------------|--------------------------------|
| - Current rating max | <i>contact blocks</i> | : 7 A (at 20°C) |
| | <i>patch leads</i> | : 5 A (at 20°C) |
| - Dielectric withstanding voltage | | : 1 500 V rms 50 Hz |
| - Operating voltage | | : 250 V rms 50 Hz |
| - Insulation resistance | | : $\geq 5\,000\text{ M}\Omega$ |
| - Contact resistance | | : $\leq 1\text{ m}\Omega$ |
| - Endurance | | : > 10 000 matings |
| - Operating temperature | <i>contact blocks</i> | : -60°C + 120°C |
| | <i>patch leads</i> | : -40°C + 85°C |

Contact blocks are available in different types of connections :

- wire solder
- straight pins for PCB
- elbow pins for PCB (*contact your RADIALL agent*)
- wrapping pins (*contact your RADIALL agent*)

EXAMPLE OF MOUNTING APPLICATIONS

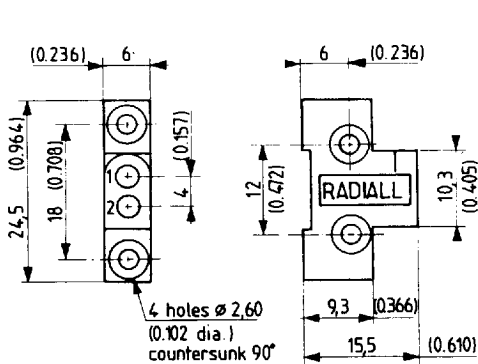


2 mm dia. CONTACT BLOCKS & PATCH LEADS

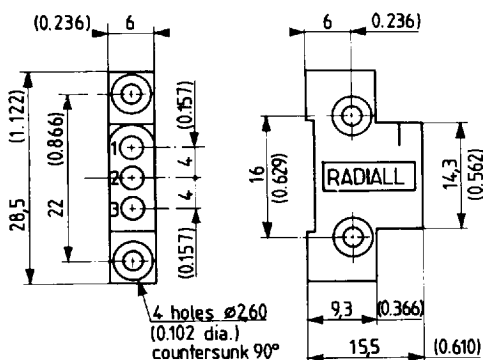
CONTACT BLOCKS

• DIMENSIONS

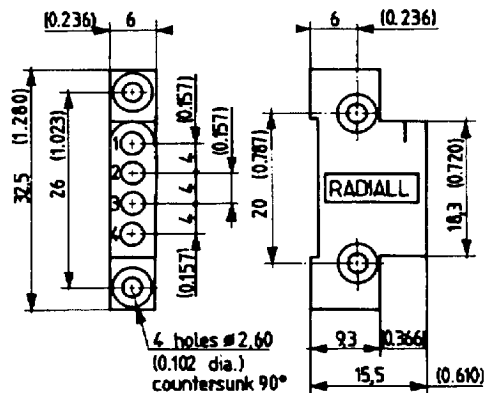
MALES and FEMALES contact blocks



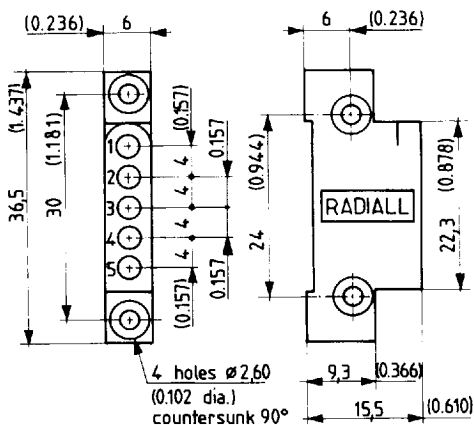
2 contacts



3 contacts

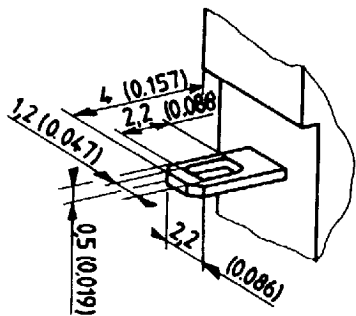


4 contacts

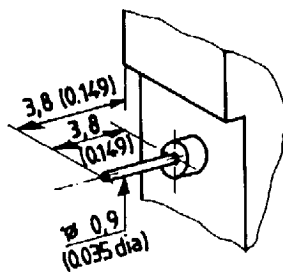


5 contacts

DIMENSIONS OF CONTACT OUTLETS

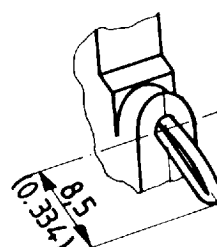


Solder outlets



Pin outlets

CONTACT PROJECTIONS



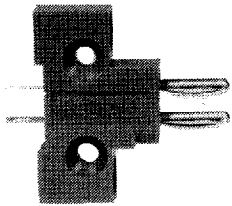
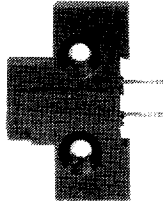
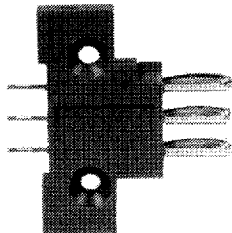
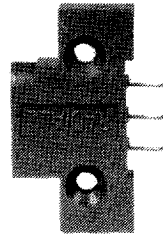
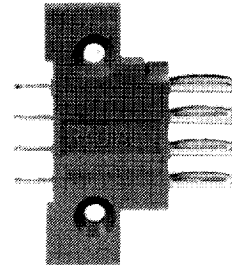
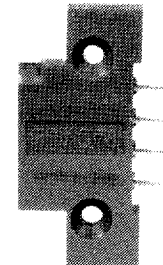
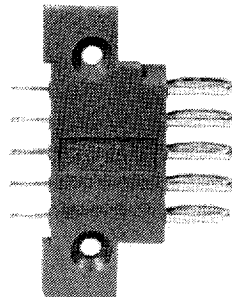
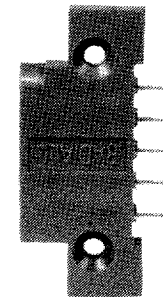
2 mm dia. CONTACT BLOCKS & PATCH LEADS

CONTACT BLOCKS

☞ WIRE SOLDER CONNECTION OUTLETS (*tin plated*)

These contact blocks are fitted with non-removable barbed contacts. The contacts are numbered.

► Packaging : 50 pieces of the same part number.

| Part number | Male contact blocks | Part number | Female contact blocks |
|-------------|--|-------------|--|
| R 644 020 |  FL 2M | R 644 120 |  FL 2F |
| R 644 030 |  FL 3M | R 644 130 |  FL 3F |
| R 644 040 |  FL 4M | R 644 140 |  FL 4F |
| R 644 050 |  FL 5M | R 644 150 |  FL 5F |

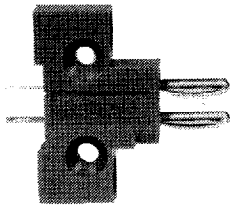
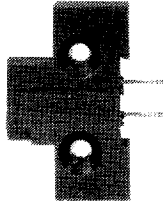
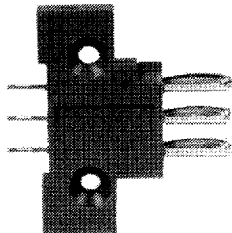
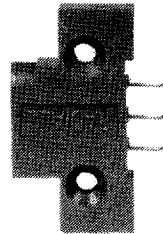
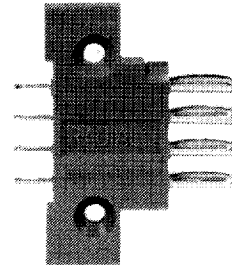
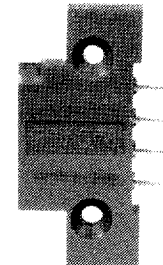
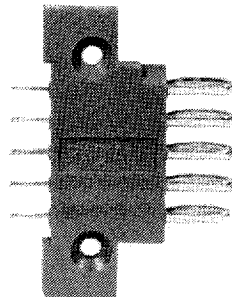
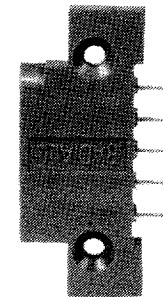
2 mm dia. CONTACT BLOCKS & PATCH LEADS

CONTACT BLOCKS

☞ WIRE SOLDER CONNECTION OUTLETS (*tin plated*)

These contact blocks are fitted with non-removable barbed contacts. The contacts are numbered.

► Packaging : 50 pieces of the same part number.

| Part number | Male contact blocks | Part number | Female contact blocks |
|-------------|--|-------------|--|
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| R 644 030 |  FL 3M | R 644 130 |  FL 3F |
| R 644 040 |  FL 4M | R 644 140 |  FL 4F |
| R 644 050 |  FL 5M | R 644 150 |  FL 5F |

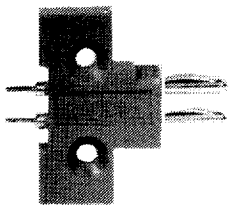
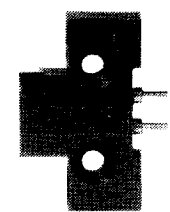
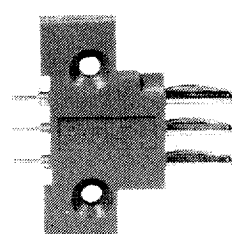
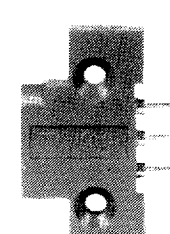
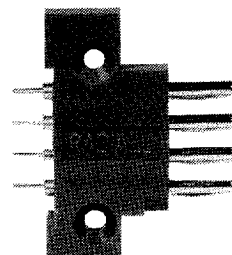

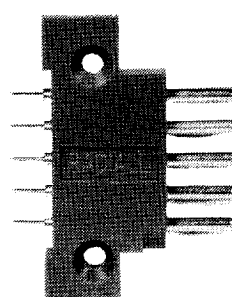
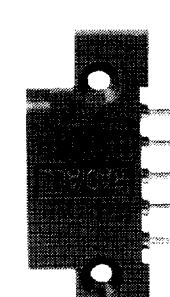
2 mm dia. CONTACT BLOCKS & PATCH LEADS

CONTACT BLOCKS MADE TO ORDER

PCB PIN OUTLETS

These contact blocks are fitted with non-removable barbed contacts. The contacts are numbered.

► **Packaging : 50 pieces of the same part number.**

| Part number | Male contact blocks | Part number | Female contact blocks |
|-------------|---|-------------|---|
| R 644 021* |  FL 2M-CI | R 644 121* |  FL 2F-CI |
| R 644 031* |  FL 3M-CI | R 644 131* |  FL 3F-CI |
| R 644 041* |  FL 4M-CI | R 644 141* |  FL 4F-CI |
| R 644 051* |  FL 5M-CI | R 644 151* |  FL 5F-CI |

* Made to order product, please consult Radiall for price and delivery

2 mm dia. CONTACT BLOCKS & PATCH LEADS

POLARIZED CONTACT BLOCKS

Polarized contact blocks are fitted with male and female contacts in the same insulation. Polarization of the contact block is based on an indicator at contact n° 1.

All polarized contact blocks are made to order (*For prices and deliveries : contact RADIALL*).

► **Packaging : 50 pieces of the same part number.**

The below code are used to define the configuration of the polarized contact blocks (*see "How to order"*)

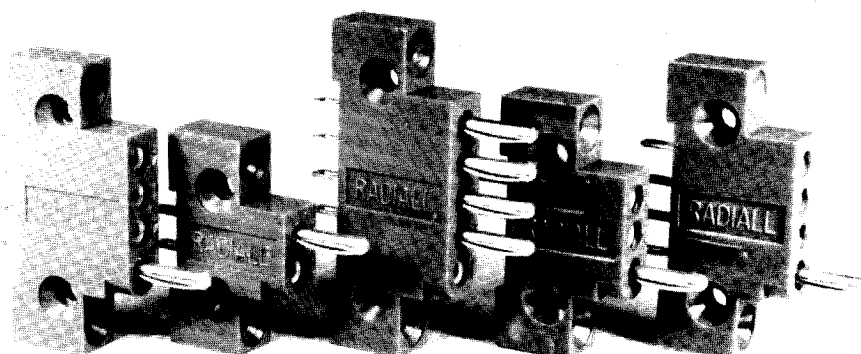
| | 2 contacts | 3 contacts | 4 contacts | 5 contacts |
|-----------------------------|---|---|---|---|
| OUTLET wire solder | R 644 220 (...)* FL 2 Type | R 644 230 (...)* FL 3 Type | R 644 240 (...)* FL 4 Type | R 644 250 (...)* FL 5 Type |
| OUTLET PCB straight pins | R 644 221 (...)* FL 2 - CI Type | R 644 231 (...)* FL 3 - CI Type | R 644 241 (...)* FL 4 - CI Type | R 644 251 (...)* FL 5 - CI Type |

HOW TO ORDER

To order : 1 contact block with 4 contacts

- 1 male contact (in position 1)
- 2 female contacts (in position 2 and 3)
- 1 male contact (in position 4), wire solder connection.

Reference part number is : **R 644 240 (1M + 2F + 1M)**.



* Made to order product, please consult Radiall for price and delivery

2 mm dia. CONTACT BLOCKS & PATCH LEADS

PATCH LEADS

Patch leads are fitted with crimped and non-removable contacts. The connector ends are moulded onto a ribbon cable composed of several cables connected by thermoplastic sealing.

The polarization is visual and the contacts have been numbered.

The patch leads can be coupled with FL contact blocks.

► **Packaging : 10 pieces of the same part number.**

● MALE-MALE PATCH LEADS

| Designation | N° of contact | Length (cm) | |
|-------------|---------------|------------------|------------------|
| | | 50 | 100 |
| ML 2 MM | 2 | R 644 822 | R 644 823 |
| ML 3 MM | 3 | R 644 832 | R 644 833 |
| ML 4 MM | 4 | R 644 842 | R 644 843 |
| ML 5 MM | 5 | R 644 852 | R 644 853 |



● FEMALE-FEMALE PATCH LEADS

| Designation | N° of contact | Length (cm) | |
|-------------|---------------|------------------|------------------|
| | | 50 | 100 |
| ML 2 FF | 2 | R 644 827 | R 644 828 |
| ML 3 FF | 3 | R 644 837 | R 644 838 |
| ML 4 FF | 4 | R 644 847 | R 644 848 |
| ML 5 FF | 5 | R 644 857 | R 644 858 |



● MALE-FEMALE PATCH LEADS

| Designation | N° of contact | Length (cm) | |
|-------------|---------------|------------------|------------------|
| | | 50 | 100 |
| ML 2 MF | 2 | R 644 922 | R 644 923 |
| ML 3 MF | 3 | R 644 932 | R 644 933 |
| ML 4 MF | 4 | R 644 942 | R 644 943 |
| ML 5 MF | 5 | R 644 952 | R 644 953 |



2 mm dia. CONTACT BLOCKS & PATCH LEADS

POLARIZED PATCH LEADS

Included in this category are products composed of either : – polarized connectors
– or non-standard cable lengths.

The polarization principle is the same as for contact blocks (see page 49).

A reliable mechanical polarization between contact blocks and patch leads has been obtained through the layout of male and female contacts within the mould.

These patch leads are made to order. *(For prices and deliveries : contact RADIALL).*

► **Packaging : 10 pieces of the same part number.**

The below code are used to define the configuration of the polarized contact blocks *(see "How to order")*

| | 2 contacts or conductors | 3 contacts or conductors | 4 contacts or conductors | 5 contacts or conductors |
|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Male connector extremity | R 644 520 (...)* | R 644 530 (...)* | R 644 540 (...)* | R 644 550 (...)* |
| Female connector extremity | R 644 620 (...)* | R 644 630 (...)* | R 644 640 (...)* | R 644 650 (...)* |
| Polarized connector extremity | R 644 596 (...)* | R 644 597 (...)* | R 644 598 (...)* | R 644 599 (...)* |
| Cable | C 290 400 | C 290 410 | C 290 420 | C 290 430 |

HOW TO ORDER

EXAMPLE N°1 : To order

1 patch lead with 3 male contacts on one connector and 3 female contacts on the other connector + a cable length of 80 cm.

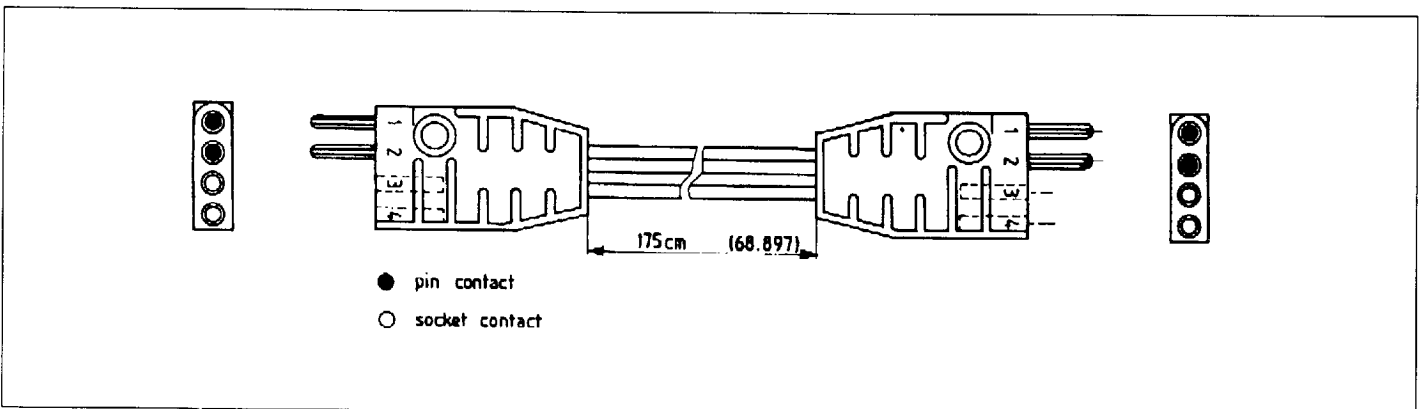
Enter our reference code : **R 644 530 (3M) / C 290 410 - 80 cm / R 644 630 (3F)**

EXAMPLE N°2 : To order

1 patch lead with 4 contacts, each with the same polarity: 2 male contacts and 2 female contacts + a cable length of 175 cm.

Part number : **R 644 598 (2M + 2F) / C 290 420 - 175 cm / R 644 598 (2M + 2F)**

(Patch cords with one free end can be ordered by writing the word "free" in place of the extremity connector code).



EXEMPLE N°2 Ribbon cable – 0.3 mm² cross section

* Made to order product, please consult Radiall for price and delivery

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