CABLES
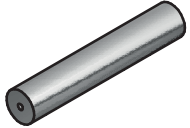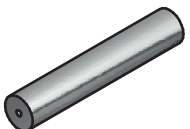
Eltra cables are high quality screened cables to provide reliable trasmission between the sensor and the subsequent electronics.
Thanks to the different cable materials (PVC or PUR, for fixed or flexible installation), to the rugged and compact design they can be used in harsh operating conditions.
Eltra provides non-assembled, partially or fully assembled cables as accessories with preferred cable lengths are 1,5 / 2 / 3 / 5 / 10 m.
The cables are not appropriate for outside usage (no direct UV and/or moisture exposure), please contact directly our Offices
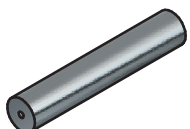
Description	Technical data	Operating temperature	Conductor colours
SPZ.CAVO 5 POLI xx M / 5 CORES CABLE xx M 5 cores PVC flame retardant shielded cable	Outer sheat material PVC - silver grey diameter 5,2 ± 0,15 mm Conductors sheat material PVC Conductors cross section AWG 24 / 0,22 mm^2 Shield AL/PET foil + drain wire	Fixed installation -25° ... +85°C (-13°... +185°F) Bending radius min 60 mm Minimum temperature installation -5°C (+23°F)	red black green yellow blue

Description	Technical data	Operating temperature	Conductor colours
SPZ.CAVO 5 POLI CAT. xx M / 5 CORES FLEX CABLE xx M 5 cores PUR drag chain shielded cable	Outer sheat material PUR - black diameter 5,2 ± 0,15 mm Conductors sheat material PVC Conductors cross section AWG 24 / 0,22 mm^2 Braid tinned copper 90% coverage	Flexible installation -20° ... +80°C (-4°... +185°F) Bending radius min 60 mm Travel speed 100 m/min max Acceleration 5 m/s^2 max Minimum temperature installation -5°C (+23°F)	red black green yellow blue

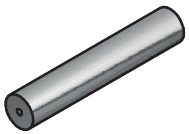| Description	Technical data	Operating temperature	Conductor colours	
SPZ.CAVO 8 POLI xx M / 8 CORES CABLE xx M 8 cores PVC flame retardant shielded cable	Outer sheat material PVC - silver grey diameter 5,7 ± 0,15 mm Conductors sheat material PVC Conductors cross section AWG 24 / 0,22 mm^2 Shield AL/PET foil + drain wire	Fixed installation -25° ... +85°C (-13°... +185°F) Bending radius min 60 mm Minimum temperature installation -5°C (+23°F)	red black green yellow blue brown or grey	orange white

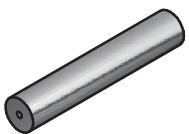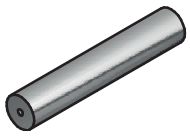| Description	Technical data	Operating temperature	Conductor colours	
SPZ.CAVO 8 POLI HT xx M / 8 CORES HT CABLE xx M 8 cores PVC flame retardant high temperature shielded cable	Outer sheat material PVC - anthracite grey Outer diameter 5,6 ± 0,1 mm Conductors sheat material PVC Conductors cross section AWG 24 / 0,22 mm^2 Shield AL/PET foil + drain wire	Fixed installation -40° ... +105°C (-40°... +221°F) Bending radius min 60 mm Minimum temperature installation -5°C (+23°F)	red black green yellow blue grey	orange white

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Description	Technical data	Operating temperature	Conductor colours	
SPZ.CAVO 8 POLI TP xx M / 8 CORES TP CABLE xx M 8 cores twisted pairs PVC flame retardant shielded cable	Outer sheat material PVC - black Outer diameter 5,6 ± 0,1 mm Conductors sheat material PVC Conductors cross section 4 x 2 x AWG 26 / 0,14 mm^2 Braid tinned copper > 82% coverage	Fixed installation -30° ... +105°C (-22°... +221°F) Bending radius min 60 mm Minimum temperature installation -5°C (+23°F)	red black yellow orange	green brown white red/blue

Description	Technical data	Operating temperature	Conductor colours	
SPZ.CAVO 8 POLI CAT. xx M / 8 CORES FLEX CABLE xx M 8 cores PUR drag chain shielded cable	Outer sheat material PUR - black diameter 5,7 +0 / -0,15 mm Conductors sheat material PVC Conductors cross section AWG 26 / 0,14 mm^2 Braid tinned copper 90% coverage	Flexible installation -20° ... +85°C (-4°... +185°F) Bending radius min 60 mm Travel speed 100 m/min max Acceleration 5 m/s^2 max Minimum temperature installation -5°C (+23°F)	red black green yellow blue brown	orange white

Description	Technical data	Operating temperature	Conductor colours	
SPZ.CAVO 12 POLI xx M / 12 CORES CABLE xx M 12 cores PVC flame retardant shielded cable	Outer sheat material PVC - silver grey Outer diameter 6,5 ± 0,1 mm Conductors sheat material PVC Conductors cross section AWG 24 / 0,22 mm^2 Shield AL/PET foil + drain wire	Fixed installation -20° ... +85°C (-4°... +185°F) Bending radius min 60 mm Minimum temperature installation -5°C (+23°F)	red black green yellow blue brown	orange white grey violet grey/pink red/blue

Description	Technical data	Operating temperature	Conductor colours	
SPZ.CAVO 16 POLI xx M / 16 CORES CABLE xx M 16 cores PVC flame retardant shielded cable	Outer sheat material PVC - grey Outer diameter 7 mm approx Conductors sheat material PVC Conductors cross section AWG 26 / 0,14 mm^2 Braid tinned copper 85% coverage	Fixed installation -40° ... +85°C (-40°... +185°F) Bending radius min 50 mm Minimum temperature installation -5°C (+23°F)	red black green yellow blue brown orange white	grey violet grey/pink red/blue white/green brown/green white/yellow yellow/brown

Description	Technical data	Operating temperature	Conductor colours	
SPZ.CAVO 32 POLI xx M / 32 CORES CABLE xx M 32 cores PVC flame retardant shielded cable	Outer sheat material PVC - grey Outer diameter 10 mm approx Conductors sheat material PVC Conductors cross section AWG 26 / 0,14 mm² Braid tinned copper 85% coverage	Fixed installation -40° ... +85°C (-40°... +185°F) Bending radius min 50 mm Minimum temperature installation -5°C (+23°F)	red black green yellow blue brown pink white grey violet grey/pink red/blue white/green brown/green white/yellow yellow/brown	white/grey brown/grey white/pink brown/pink white/blue brown/blue white/red brown/red white/black brown/black grey/green yellow/grey pink/green yellow/pink green/blue yellow/blue

PIGTAILS WITH PLUG
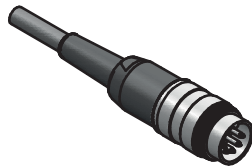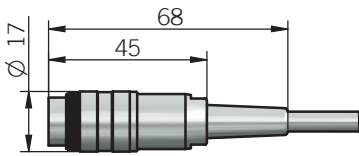
PINOUT FRONT VIEW
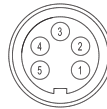
Description	Ordering code example	Electrical interfaces supported	Mating with
PR+C Pigtail with metal/plastic 5 pin C091 M16 IP40 plug connector	ER30E500Z5/28P4X3**PR+C.162**	NPN open collector (with or without zero) push-pull (with or without zero)	CONN.C05FV (P/N 94990135)
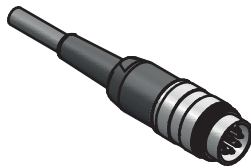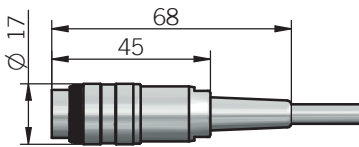
PINOUT FRONT VIEW

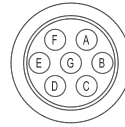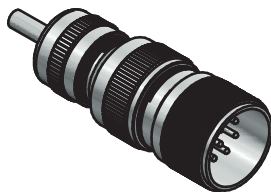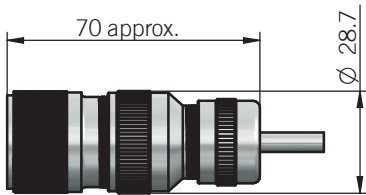| Description	Ordering code example	Electrical interfaces supported	Mating with
PR+C Pigtail with metal/plastic 8 pin C091 M16 IEC 60130-9 IP40 plug connector	EH30M1000Z5L6X6**PR+C.162**	line driver (with or without zero) RS-422 (with or without zero)	CONN.C08FV (P/N 94990142)

PINOUT FRONT VIEW

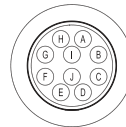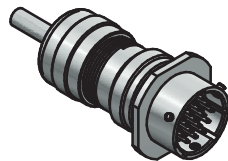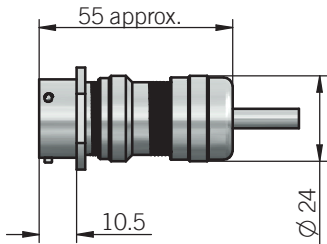| Description	Ordering code example	Electrical interfaces supported	Mating with
PR+H (incremental) / PR+HA (absolute) Pigtail with metal 12 pin M23 CCW plug connector	ER58B1000Z5L6S3**PR+H.162** EMA36B12G8/30SPZE6X8**PR+HA.162**	NPN open collector (with or without zero) push-pull (with or without zero) line driver (with or without zero) RS-422 (with or without zero) SSI (with or without reset)	CONN.H12FV CCW (P/N 94990137)

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55 approx.   Ø 25.5

PINOUT FRONT VIEW

F A
E G B
D C

Description	Ordering code example	Electrical interfaces supported	Mating with
PR+M (incremental) / 7 PR+MC (absolute) Pigtail with metal 7 pin MIL plug connector	ER38F500S5L10XX**PR+M.162** EMA50F1024G8/30SPX15X3**PR+MC.162**	NPN open collector (with or without zero) push-pull (with or without zero) line driver (without zero) RS-422 (without zero) SSI (without reset)	CONN.M07FV (P/N 94990121)

70 approx.   Ø 28.7

PINOUT FRONT VIEW

H A B
G I C
F J
E D

Description	Ordering code example	Electrical interfaces supported	Mating with
PR+M (incremental) / PR+MD (absolute) Pigtail with metal 10 pin MIL plug connector	EH80C1024Z5/28L10X6**PR+M.162** EAMR63D12/13B8/30SZE10X**PR+MD.162**	line driver (with zero) RS-422 (with zero) SSI (with reset)	CONN.M10FV (P/N 94990119)

55 approx.   10.5   Ø 24

PINOUT FRONT VIEW

M A B
L N P C
K U V R D
J T S E
H G F

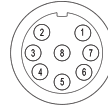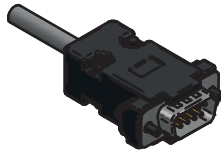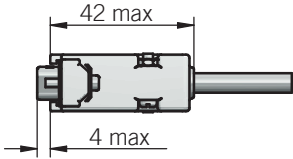| Description	Ordering code example	Electrical interfaces supported	Mating with
PR+M (incremental) / PR+MA (absolute) Pigtail with metal 19 pin MIL plug connector	EF36K6L1000Z5L10X6**PR+M.162** EMA50F1024G8/30UPX12X3**PR+MA.162**	NPN open collector (EF series, with or without zero) push-pull (EF series, with or without zero) RS-422 (EF series, with or without zero) Bit parallel (singleturn models)	CONN.M19FV (P/N 94990123)
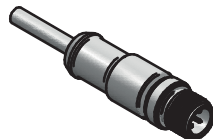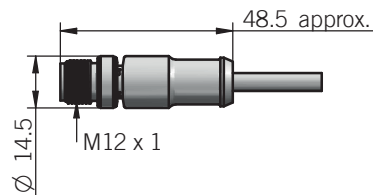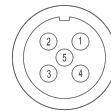
48.5 approx.   M12 x 1   Ø 14

PINOUT FRONT VIEW

2 1
5
3 4

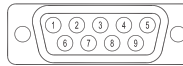| Description	Ordering code example	Electrical interfaces supported	Mating with
PR+M12 Pigtail with M12 5 pin M12 A-coded plug connector	ER40A150S5/28P6X6**PR+M12.162** EAL58C16B12/30V010X10X**PR+M12.162**	NPN open collector (with or without zero) push-pull (with or without zero) Analogue (voltage or current 3 wires)	CONN.M12FV 5P (P/N 94990117)
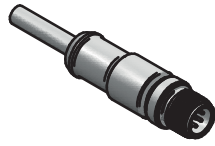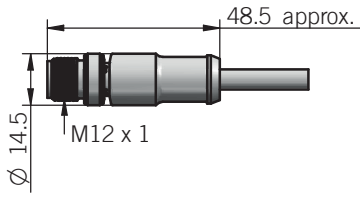
PINOUT FRONT VIEW

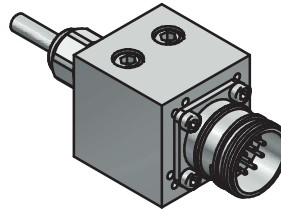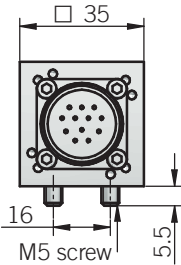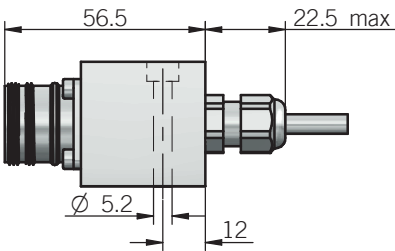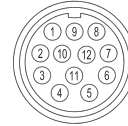| Description	Ordering code example	Electrical interfaces supported	Mating with
PR+M12 Pigtail with 8 pin M12 A-coded plug connector	EMI38F10Z5/30RS6XX**PR+M12.162** EMA50A4096B8/30SPZE6X3**PR+M12.162**	line driver (with or without zero) RS-422 (with or without zero) SSI (with or without reset) Analogue (current 4 wires)	CONN.M12FV 8P (P/N 94990118)

PINOUT FRONT VIEW

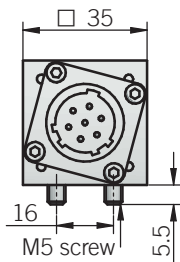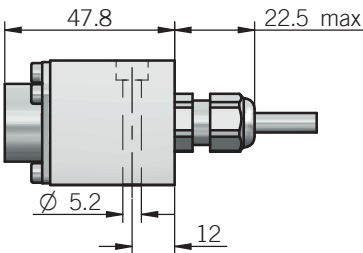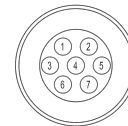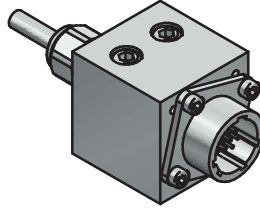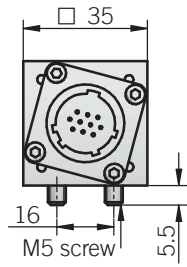| Description	Ordering code example	Electrical interfaces supported	Mating with
PR+V Pigtail with plastic 9 pin SUB-DE plug connector	ER63A250Z5/28P10X6**PR+V.162**	NPN open collector (with or without zero) push-pull (with or without zero) line driver (with or without zero) RS-422 (with or without zero)	CONN.M10FV (P/N 94990119)

PIGTAIL WITH CONNECTOR BLOCK & PLUG

FRONT VIEW

n.2 M5x40 screws included

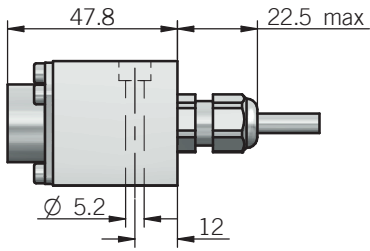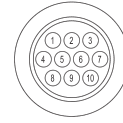| Description	Ordering code example	Electrical interfaces supported	Mating with
HR.445 Pigtail with black anodized aluminium connector block & 12 pin M23 CCW IP67 plug	EH80P2048Z5L14X3**HR.162+445**	NPN open collector (with or without zero) push-pull (with or without zero) line driver (with or without zero) RS-422 (with or without zero)	CONN.H12FV CCW (P/N 94990137)

FRONT VIEW

n.2 M5x40 screws included

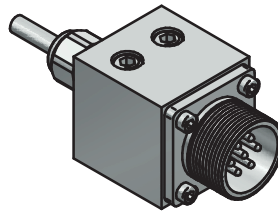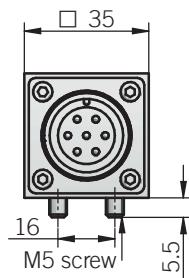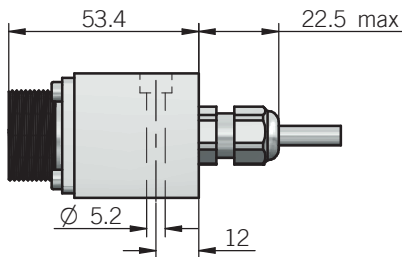| Description	Ordering code example	Electrical interfaces supported	Mating with
JR.445 Pigtail with black anodized aluminium connector block & 7 pin JIS-C-5432 IP40 plug	EH30M1024S5L6X3**JR.162+445**	NPN open collector (with or without zero) push-pull (with or without zero) line driver (without zero) RS-422 (without zero)	CONN.J07FV (P/N 94990131)

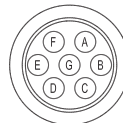eltra.it@broadcom.com

47.8   22.5 max   □ 35

FRONT VIEW

Ø 5.2   12

16   5.5
M5 screw

n.2 M5x40 screws included

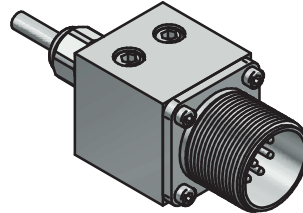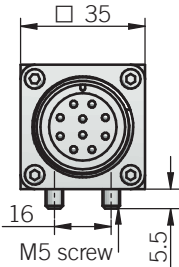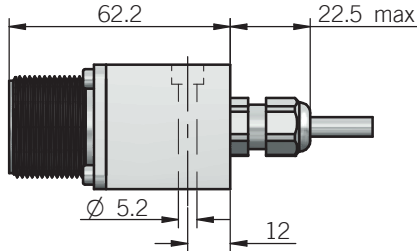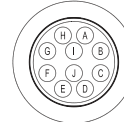| Description	Ordering code example	Electrical interfaces supported	Mating with
JR.445 Pigtail with black anodized aluminium connector block & 10 pin JIS-C-5432 IP40 plug	ER40A2000Z5/28L6X6**JR.162+445**	line driver (with zero) RS-422 (with zero)	CONN.J10FV (P/N 94990133)

53.4   22.5 max   □ 35

FRONT VIEW

Ø 5.2   12

16   5.5
M5 screw

n.2 M5x40 screws included

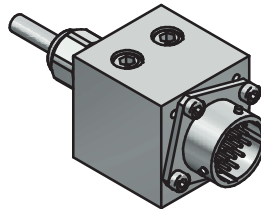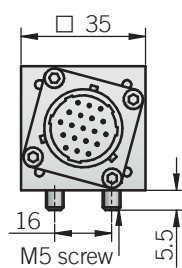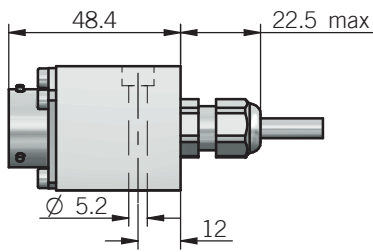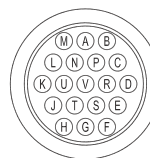| Description	Ordering code example	Electrical interfaces supported	Mating with
MR.445 Pigtail with black anodized aluminium connector block & 7 pin IP67 MIL plug	EL63GB100Z5/28P15X3**MR.162+445**	NPN open collector (with or without zero) push-pull (with or without zero) line driver (without zero) RS-422 (without zero)	CONN.M07FV (P/N 94990121)

62.2   22.5 max   □ 35

FRONT VIEW

Ø 5.2   12

16   5.5
M5 screw

n.2 M5x40 screws included

Description	Ordering code example	Electrical interfaces supported	Mating with
MR.445 Pigtail with black anodized aluminium connector block & 10 pin IP67 MIL plug	ER38F1000Z5/30L10XX**MR.162+445**	line driver (with zero) RS-422 (with zero)	CONN.M10FV (P/N 94990119)

48.4   22.5 max   □ 35

FRONT VIEW

Ø 5.2   12

16   5.5
M5 screw

n.2 M5x40 screws included

Description	Ordering code example	Electrical interfaces supported	Mating with
MR.445 Pigtail with black anodized aluminium connector block & 19 pin IP67 MIL plug	EF36K6L1000Z5L10X6**MR.162+445**	NPN open collector (EF series, with or without zero) push-pull (EF series, with or without zero) RS-422 (EF series, with or without zero)	CONN.M19FV (P/N 94990123)

dimensions in mm