



ROBOTIC ETHERNET CABLE

IEC 61158

8 orderable sizes

STANDARD IEC 61158	CONDUCTOR AWG22/19 fine stranded / AWG26/19 fine stranded	INSULATION / JACKET Torsion-rated PUR or TPE jacket
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Construction

- 1 ■ Conductor (per core) – AWG22/19 fine stranded
- 2 ■ Pair insulation – Foam PE or PE data insulation
- 3 ■ Filler – Bedding / filler
- 4 ■ Overall screen (OS) – Al/polyester foil + drain
- 5 ■ Sheath – Torsion-rated PUR or TPE jacket

Size selection — all available cross-sections

Cable reference	Protocol / use	Category	Pair layout	Conductor	Bandwidth	Shielding
Torsion Rated Industrial Ethernet 2 x 2 pair AWG22/19 fine stranded Torsion duty	Industrial Ethernet / PROFINET	Cat5e / Cat6A	2 x 2 pair	AWG22/19 fine stranded	100 MHz to 500 MHz	Flexible foil and braid screen
Torsion Rated Industrial Ethernet 2 x 2 pair AWG22/19 fine stranded Robot arm motion	Industrial Ethernet / PROFINET	Cat5e / Cat6A	2 x 2 pair	AWG22/19 fine stranded	100 MHz to 500 MHz	Flexible foil and braid screen
Torsion Rated Industrial Ethernet 2 x 2 pair AWG26/19 fine stranded Torsion duty	Industrial Ethernet / PROFINET	Cat5e / Cat6A	2 x 2 pair	AWG26/19 fine stranded	100 MHz to 500 MHz	Flexible foil and braid screen
Torsion Rated Industrial Ethernet 2 x 2 pair AWG26/19 fine stranded Robot arm motion	Industrial Ethernet / PROFINET	Cat5e / Cat6A	2 x 2 pair	AWG26/19 fine stranded	100 MHz to 500 MHz	Flexible foil and braid screen
Torsion Rated Industrial Ethernet 4 x 2 pair AWG22/19 fine stranded Torsion duty	Industrial Ethernet / PROFINET	Cat5e / Cat6A	4 x 2 pair	AWG22/19 fine stranded	100 MHz to 500 MHz	Flexible foil and braid screen

Cable reference	Protocol / use	Category	Pair layout	Conductor	Bandwidth	Shielding
Torsion Rated Industrial Ethernet 4 x 2 pair AWG22/19 fine stranded Robot arm motion	Industrial Ethernet / PROFINET	Cat5e / Cat6A	4 x 2 pair	AWG22/19 fine stranded	100 MHz to 500 MHz	Flexible foil and braid screen
Torsion Rated Industrial Ethernet 4 x 2 pair AWG26/19 fine stranded Torsion duty	Industrial Ethernet / PROFINET	Cat5e / Cat6A	4 x 2 pair	AWG26/19 fine stranded	100 MHz to 500 MHz	Flexible foil and braid screen
Torsion Rated Industrial Ethernet 4 x 2 pair AWG26/19 fine stranded Robot arm motion	Industrial Ethernet / PROFINET	Cat5e / Cat6A	4 x 2 pair	AWG26/19 fine stranded	100 MHz to 500 MHz	Flexible foil and braid screen

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