

ROBOFLEX®-recycle M12 sensor cable screened one end pre-assembled



Technical data

- **Approval:**
UL/cUL approved
- **Production**
in accordance with VDE standards
- **Temperature range:**
fixed installation -40°C to +105°C
flexible -30°C to +105°C
- **Nominal voltage:**
300 V
- **Test voltage:**
2000 V
- **Minimum bending radius:**
7.5 x cable diameter (for flexible installation)
- **Traversing speed:**
max. 3.3 m/s for 5 m of horizontal traverse path length
- **Acceleration:**
max. 5 m/s²
- **Flexing and torsion cycles:**
min. 10 million.
- **Torsional stress:**
+/- 360°/m

Cable structure

- Bare copper stranded wire, 42 x 0.10 mm
- Cores stranded in layers
- Polyester foil taping
- Screening of tinned copper braid, coverage approx. 85%, D-screen for Robot applications
- Special compound sheath, weld-splatter resistant, recyclable, matt, low-adhesion, flame retardant and self-extinguishing to DIN VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1
- Sheath colour: black

Assembly (3-pin)

- Core insulation polyester, black, brown, blue, black
- Outer diameter 5,2 +/- 0.2 mm

Assembly (4-pin)

- Core insulation polyester, brown, blue, black, white
- Outer diameter 5.5 +/- 0.2 mm

Assembly (5-pin)

- Core insulation polyester, brown, blue, black, white, green
- Outer diameter 6,0 +/- 0.2 mm

Properties

- very good resistance to oil as per DIN VDE 0473-811-404/DIN EN 60811-404
- good resistance to acids, alkalis and solvents
- not cross-linked
- weld splatter resistant
- recyclable
- halogen-free
- Silicone and cadmium-free
- Free of substances harmful to paint adhesion Substances
- very high mechanical load capacity
- abrasion resistant
- wear-resistant
- Highly flexible
- UV-resistant
- ROHS conformant
- CE conformant

Note

IP67
A-coded

plug straight pre-assembled

Part no.	Cable type / cross-sec. mm²	Length m	Plug type	Cop. weight kg / 1000 pcs.	
671893	ROBOFLEX®-recycle 3 x 0,34	1,0	plug, straight	19,6	-
671894	ROBOFLEX®-recycle 3 x 0,34	1,5	plug, straight	29,4	-
671896	ROBOFLEX®-recycle 3 x 0,34	3,0	plug, straight	58,8	-
671897	ROBOFLEX®-recycle 3 x 0,34	5,0	plug, straight	98,0	-
671899	ROBOFLEX®-recycle 3 x 0,34	10,0	plug, straight	196,0	-
671903	ROBOFLEX®-recycle 3 x 0,34	1,0	plug, angled	19,6	-
671904	ROBOFLEX®-recycle 3 x 0,34	1,5	plug, angled	29,4	-
671906	ROBOFLEX®-recycle 3 x 0,34	3,0	plug, angled	58,8	-
671907	ROBOFLEX®-recycle 3 x 0,34	5,0	plug, angled	98,0	-
671909	ROBOFLEX®-recycle 3 x 0,34	10,0	plug, angled	196,0	-
671913	ROBOFLEX®-recycle 4 x 0,34	1,0	plug, straight	24,2	-
671914	ROBOFLEX®-recycle 4 x 0,34	1,5	plug, straight	36,3	-
671916	ROBOFLEX®-recycle 4 x 0,34	3,0	plug, straight	72,6	-
671917	ROBOFLEX®-recycle 4 x 0,34	5,0	plug, straight	121,0	-
671919	ROBOFLEX®-recycle 4 x 0,34	10,0	plug, straight	242,0	-
671923	ROBOFLEX®-recycle 4 x 0,34	1,0	plug, angled	24,2	-
671924	ROBOFLEX®-recycle 4 x 0,34	1,5	plug, angled	36,3	-
671926	ROBOFLEX®-recycle 4 x 0,34	3,0	plug, angled	72,6	-
671927	ROBOFLEX®-recycle 4 x 0,34	5,0	plug, angled	121,0	-
671929	ROBOFLEX®-recycle 4 x 0,34	10,0	plug, angled	242,0	-
671933	ROBOFLEX®-recycle 5 x 0,34	1,0	plug, straight	30,0	-
671934	ROBOFLEX®-recycle 5 x 0,34	1,5	plug, straight	45,0	-
671936	ROBOFLEX®-recycle 5 x 0,34	3,0	plug, straight	90,0	-
671937	ROBOFLEX®-recycle 5 x 0,34	5,0	plug, straight	150,0	-
671939	ROBOFLEX®-recycle 5 x 0,34	10,0	plug, straight	300,0	-
671943	ROBOFLEX®-recycle 5 x 0,34	1,0	plug, angled	30,0	-
671944	ROBOFLEX®-recycle 5 x 0,34	1,5	plug, angled	45,0	-
671946	ROBOFLEX®-recycle 5 x 0,34	3,0	plug, angled	90,0	-
671947	ROBOFLEX®-recycle 5 x 0,34	5,0	plug, angled	150,0	-
671949	ROBOFLEX®-recycle 5 x 0,34	10,0	plug, angled	300,0	-

Continuation ►

ROBOFLEX®-recycle M12 sensor cable screened one end pre-assembled

socket one end pre-assembled

Part no.	Cable type / cross-sec. mm²	Length m	Plug type	Cop. weight kg / 1000 pcs.	
671873	ROBOFLEX®-recycle 3 x 0,34	1,0	socket straight	19,6	-
671874	ROBOFLEX®-recycle 3 x 0,34	1,5	socket straight	29,4	-
671876	ROBOFLEX®-recycle 3 x 0,34	3,0	socket straight	58,8	-
671877	ROBOFLEX®-recycle 3 x 0,34	5,0	socket straight	98,0	-
671879	ROBOFLEX®-recycle 3 x 0,34	10,0	socket straight	196,0	-
671883	ROBOFLEX®-recycle 3 x 0,34	1,0	socket angled	19,6	-
671884	ROBOFLEX®-recycle 3 x 0,34	1,5	socket angled	29,4	-
671886	ROBOFLEX®-recycle 3 x 0,34	3,0	socket angled	58,8	-
671887	ROBOFLEX®-recycle 3 x 0,34	5,0	socket angled	98,0	-
671889	ROBOFLEX®-recycle 3 x 0,34	10,0	socket angled	196,0	-
671833	ROBOFLEX®-recycle 4 x 0,34	1,0	socket straight	24,2	-
671834	ROBOFLEX®-recycle 4 x 0,34	1,5	socket straight	36,3	-
671836	ROBOFLEX®-recycle 4 x 0,34	3,0	socket straight	72,6	-
671837	ROBOFLEX®-recycle 4 x 0,34	5,0	socket straight	121,0	-
671839	ROBOFLEX®-recycle 4 x 0,34	10,0	socket straight	242,0	-
671843	ROBOFLEX®-recycle 4 x 0,34	1,0	socket angled	24,2	-
671844	ROBOFLEX®-recycle 4 x 0,34	1,5	socket angled	36,3	-
671846	ROBOFLEX®-recycle 4 x 0,34	3,0	socket angled	72,6	-
671847	ROBOFLEX®-recycle 4 x 0,34	5,0	socket angled	121,0	-
671849	ROBOFLEX®-recycle 4 x 0,34	10,0	socket angled	242,0	-
671854	ROBOFLEX®-recycle 5 x 0,34	1,0	socket straight	30,0	-
671850	ROBOFLEX®-recycle 5 x 0,34	1,5	socket straight	45,0	-
671851	ROBOFLEX®-recycle 5 x 0,34	3,0	socket straight	90,0	-
671852	ROBOFLEX®-recycle 5 x 0,34	5,0	socket straight	150,0	-
671853	ROBOFLEX®-recycle 5 x 0,34	10,0	socket straight	300,0	-
671859	ROBOFLEX®-recycle 5 x 0,34	1,0	socket angled	30,0	-
671855	ROBOFLEX®-recycle 5 x 0,34	1,5	socket angled	45,0	-
671856	ROBOFLEX®-recycle 5 x 0,34	3,0	socket angled	90,0	-
671857	ROBOFLEX®-recycle 5 x 0,34	5,0	socket angled	150,0	-
671858	ROBOFLEX®-recycle 5 x 0,34	10,0	socket angled	300,0	-

Dimensions and specifications may be changed without prior notice.