

ROBOFLEX®-recycle M12 sensor cable screened both ends 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 to 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 / socket

Part no.	Cable type / cross-sec. mm²	Length m	Plug type	Cop. weight kg / 1000 pcs.	
671953	ROBOFLEX®-recycle 3 x 0,34	1,0	plug straight / socket straight	19,6	-
671954	ROBOFLEX®-recycle 3 x 0,34	1,5	plug straight / socket straight	29,4	-
671956	ROBOFLEX®-recycle 3 x 0,34	3,0	plug straight / socket straight	58,8	-
671957	ROBOFLEX®-recycle 3 x 0,34	5,0	plug straight / socket straight	98,0	-
671759	ROBOFLEX®-recycle 3 x 0,34	10,0	plug straight / socket straight	196,0	-
671963	ROBOFLEX®-recycle 4 x 0,34	1,0	plug straight / socket straight	24,2	-
671964	ROBOFLEX®-recycle 4 x 0,34	1,5	plug straight / socket straight	36,3	-
671966	ROBOFLEX®-recycle 4 x 0,34	3,0	plug straight / socket straight	72,6	-
671967	ROBOFLEX®-recycle 4 x 0,34	5,0	plug straight / socket straight	121,0	-
671969	ROBOFLEX®-recycle 4 x 0,34	10,0	plug straight / socket straight	242,0	-
671973	ROBOFLEX®-recycle 5 x 0,34	1,0	plug straight / socket straight	30,0	-
671974	ROBOFLEX®-recycle 5 x 0,34	1,5	plug straight / socket straight	45,0	-
671976	ROBOFLEX®-recycle 5 x 0,34	3,0	plug straight / socket straight	90,0	-
671977	ROBOFLEX®-recycle 5 x 0,34	5,0	plug straight / socket straight	150,0	-
671979	ROBOFLEX®-recycle 5 x 0,34	10,0	plug straight / socket straight	300,0	-
671983	ROBOFLEX®-recycle 3 x 0,34	1,0	plug straight / socket angled	19,6	-
671984	ROBOFLEX®-recycle 3 x 0,34	1,5	plug straight / socket angled	29,4	-
671986	ROBOFLEX®-recycle 3 x 0,34	3,0	plug straight / socket angled	58,8	-
671988	ROBOFLEX®-recycle 3 x 0,34	5,0	plug straight / socket angled	98,0	-
671989	ROBOFLEX®-recycle 3 x 0,34	10,0	plug straight / socket angled	196,0	-
671993	ROBOFLEX®-recycle 4 x 0,34	1,0	plug straight / socket angled	24,2	-
671994	ROBOFLEX®-recycle 4 x 0,34	1,5	plug straight / socket angled	36,3	-
671996	ROBOFLEX®-recycle 4 x 0,34	3,0	plug straight / socket angled	72,6	-
671997	ROBOFLEX®-recycle 4 x 0,34	5,0	plug straight / socket angled	121,0	-
671999	ROBOFLEX®-recycle 4 x 0,34	10,0	plug straight / socket angled	242,0	-
672003	ROBOFLEX®-recycle 5 x 0,34	1,0	plug straight / socket angled	30,0	-
672004	ROBOFLEX®-recycle 5 x 0,34	1,5	plug straight / socket angled	45,0	-
672006	ROBOFLEX®-recycle 5 x 0,34	3,0	plug straight / socket angled	90,0	-
672007	ROBOFLEX®-recycle 5 x 0,34	5,0	plug straight / socket angled	150,0	-
672009	ROBOFLEX®-recycle 5 x 0,34	10,0	plug straight / socket angled	300,0	-
672013	ROBOFLEX®-recycle 3 x 0,34	1,0	plug angled / socket angled	19,6	-
672014	ROBOFLEX®-recycle 3 x 0,34	1,5	plug angled / socket angled	29,4	-
672016	ROBOFLEX®-recycle 3 x 0,34	3,0	plug angled / socket angled	58,8	-
672017	ROBOFLEX®-recycle 3 x 0,34	5,0	plug angled / socket angled	98,0	-
672019	ROBOFLEX®-recycle 3 x 0,34	10,0	plug angled / socket angled	196,0	-

Continuation ►

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Part no.	Cable type / cross-sec. mm²	Length m	Plug type	Cop. weight kg / 1000 pcs.	
672023	ROBOFLEX®-recycle 4 x 0,34	1,0	plug angled / socket angled	24,2	-
672024	ROBOFLEX®-recycle 4 x 0,34	1,5	plug angled / socket angled	36,3	-
672026	ROBOFLEX®-recycle 4 x 0,34	3,0	plug angled / socket angled	72,6	-
672027	ROBOFLEX®-recycle 4 x 0,34	5,0	plug angled / socket angled	121,0	-
672029	ROBOFLEX®-recycle 4 x 0,34	10,0	plug angled / socket angled	242,0	-
672033	ROBOFLEX®-recycle 5 x 0,34	1,0	plug angled / socket angled	30,0	-
672034	ROBOFLEX®-recycle 5 x 0,34	1,5	plug angled / socket angled	45,0	-
672036	ROBOFLEX®-recycle 5 x 0,34	3,0	plug angled / socket angled	90,0	-
672037	ROBOFLEX®-recycle 5 x 0,34	5,0	plug angled / socket angled	150,0	-
672039	ROBOFLEX®-recycle 5 x 0,34	10,0	plug angled / socket angled	300,0	-

Dimensions and specifications may be changed without prior notice.