

PROFINET cable – Technical datasheet



Description	ID	Application type	Cable code
NBC-MSD-MSD SCO-PN/93C/5.000	1354659	Drag chain	1408634 / 93C
NBC-MSD-MSD SCO-PN/93R/5.000	1354668	Robot	1408634 / 93R
NBC-MSD-MRD SCO-PN/93C/5.000	1354661	Drag chain	1408625 / 93C
NBC-MSD-MRD SCO-PN/93R/5.000	1354674	Robot	1408625 / 93R
NBC-MSD-R4AC SCO-PN/93C/5.000	1354681	Drag chain	1408639 / 93C
NBC-MSD-R4AC SCO-PN/93R/5.000	1354677	Robot	1408639 / 93R
NBC-MRD-R4AC SCO-PN/93C/5.000	1354688	Drag chain	1408632 / 93C
NBC-MRD-R4AC SCO-PN/93R/5.000	1354692	Robot	1408632 / 93R

General information	
Protection class	IP67 (M12-Plug), IP20 (RJ45-Plug)
Ambient temperatures	-20 °C ... 60 °C
Signal type / category	PROFINET CAT5 (IEC 11801), 100 MBit/s
Performance class	CAT5
Transmission rate	100 MBit/s

Plug-specific information	MRD	MSD	R4AC
Type of connector	Straight plug	Angled plug	Straight plug
Screw threads / Coding	M12, D-coded	M12, D-coded	RJ45
Number of poles (connector face)	4	4	4 (8)
Used materials	CuSn, Ni/Au, PA, TPU, zinc die casting	CuSn, Ni/Au, PA, TPU, zinc die casting	CuSn, Ni/Au, PA
Plug cycles	≥ 100	≥ 100	≥ 750
Tightening torque	0,4 Nm	0,4 Nm	

Cable-specific information	Drag Chain	Robot
Conductor cross-section	4x 0,34 mm ²	4x 0,34 mm ²
Wire colour	WH, YE, BU, OG	WH, YE, BU, OG
Shielding	yes	yes
Colour outer sheath	green	green
Cable diameter D	6,5 mm ±0,2 mm	6,5 mm ±0,2 mm
Min. bending radius, fixed installation	5 x D	5 x D
Min. bending radius, flexible installation	7,5 x D	
Torsion load	± 30 °/m	± 180 °/m
Number of bending cycles	3.000.000	
Number of torsion cycles		1.000.000
Max. traverse speed	4 m/s	
Max. velocity	4 m/s ²	
Cable weight	61 kg/km	55 kg/km
Non-inflammability	acc. IEC 60332-1-2	acc. IEC 60332-1-2
Halogen-free		acc. IEC 60754-1
Oil resistance	acc. DIN EN 60811-2-1	acc. DIN EN 60811-2-1
Other resistance	UV resistance	UV resistance