

RE-2X(St)H PiMF 1 – 24 pairs

CE The cable is conformed with the Low Voltage Directive 2006/95/EEC



Instrumentation cable according to EN 50288-7

General	Individually and collectively screened cable for instrumentation, control and communication applications. Suitable for direct burial use.
Conductor	Annealed stranded copper conductor
Insulation	Extruded XLPE. Nominal wall thickness 0,4 mm. Insulation colors white and black, white colors numbered 1, 2...n- according to number of pairs.
Twisting	Two insulated conductors white and black stranded together and covered with a polyester tape
Pair shielding	Solid ground conductor $\varnothing$ 0,6 mm, al-polyester tape and a polyester tape applied on the pairs.
Stranding	Pairs twisted together. Polyester tape applied on the strand. 24 μ m al-polyester tape applied as a screen over the polyester tape. 7x0,30 tinned copper drain wire under the screen.
Sheath	Extruded flame retardant halogen free PE, (EN 50290-2-27) Nominal wall thickness cable $\varnothing \leq 24$ mm 1,8 mm cable $\varnothing > 24$ mm 2,0 mm

Physical properties	Flame retardant	IEC 60332-1-2, IEC 60332-3-24 (Category C)
	Installation temperature	-5°C... +50°C
	Min. bending radius	7,5 x cable $\varnothing$
	Sunlight resistance	UL1581 section1200
	Oil resistance	ICEA S-82-552/NEMA WC 55
Identification	Lot number, cable type, cable size, production month, year, manufacturer's name and meter marking printed on the sheath	

Electrical properties

		Unit				
Conductor size	nom.		0,5 mm ²	0,75 mm ²	1,3 mm ²	1,5 mm ²
Conductor resistance	max.	ohm/km	39,2	24,6	14,2	12,6
Insulation resistance	min.	Mohmxkm	5000	5000	5000	5000
Mutual capacitance (800Hz)						
	max.	nF/km	120	120	120	120
L/R ratio	max.	μ H/ohm	25	25	40	40
Inductance	max.	mH/km	0,57	0,60	0,59	0,60
Test voltage						
Conductor/conductor	min.	VDC 30s	4000	4000	4000	4000
Conductor/screen	min.	VDC 30s	2000	2000	2000	2000
Operating voltage (Ueff)	max.	V	300	300	300	300

Number of pairs	Outer $\varnothing$ nom. mm	Weight nom. kg/km	Outer $\varnothing$ nom. mm	Weight nom. kg/km	Outer $\varnothing$ nom. mm	Weight nom. kg/km	Outer $\varnothing$ nom. mm	Weight nom. kg/km
	0,5 mm ²		0,75 mm ²		1,3 mm ²		1,5 mm ²	
2	9,3	102	10,0	119	11,1	151	11,5	163
4	10,9	150	12,5	186	14,0	244	14,6	269
8	13,3	237	16,0	306	18,2	415	19,1	461
12	15,4	323	18,8	420	21,5	578	22,5	647
16	19,1	423	21,1	530	24,2	737	25,4	827
20	18,7	487	23,1	638	26,6	893	27,9	1005
24	20,1	556	24,9	746	28,7	1047	30,2	1180

Technical data of triples, other conductor dimensions and number of pairs will be stated on request.