

RE-2X(St)H nx2x0,50 mm² EN 50288-7 300 V cl.2 (CPR.B2ca)

According to EN 50288-7

300 V

Construction

Conductor		Stranded bare copper wire, according to EN 60228 Class 2, $\varnothing 7/0,30$ mm
Insulation	2X	XLPE
Core identifications		Pairs: White, Black (numbered from 1 to n)
Pairing		2 core twisted with max. lay length of 100 mm like (1-1, 2-2, ..., n-n)
Stranding		Pairs stranded together & PET applied
Overall screen	(St)	AL-PES tape over stranded tinned copper drain wire 0,50 mm ² ($\varnothing 7/0,30$ mm)
Outer sheath	H	HFFR compound
Sheath color		RAL 9005 Black or RAL 5015 Blue

Marking kabeltec RE-2X(St)H n x 2 x 0,50 mm² EN 50288-7 300V cl.2 B2ca CE RoHS 71563 Month/Year Lot Nom

where n represents number of cable core

Electrical properties (at 20 ° C, unless otherwise stated)

Cable operating voltage	300 V
Mutual capacitance	max. 150 nF/km
L/R ratio	max. 25 $\mu\text{H}/\Omega$ up to 1,0 mm ² , max. 40 $\mu\text{H}/\Omega$ for 1,50 mm ² , max. 60 $\mu\text{H}/\Omega$ for 2,50 mm ²
Test voltage core/core	1000 Vac or 2000 Vdc at 1 min.

Mechanical and thermal properties

Conductor temperature	Max 90 °C
Short-Circuit temperature	Max 250 °C
Working temperature	Fixed -30 °C to +70 °C Flexible -5 °C to +50 °C

Min. bending radius 10 x cable diameter

Other properties

Flame retardant	IEC 60332-1-2
Acidic (Corrosive) gas test	IEC 60754-1/2
Smoke density	IEC 61034
Sunlight resistance	Yes
CE, RoHS compliant	Yes

CPR classification B2ca

Technical and dimension table

No of cores and cross section	Outer dimension	Conductor resistance at 20 °C		Insulation resistance	Cable weight	Cu Factor
		Nom. (mm)	Max. (Ω/km)			
N x 2 x mm ²				Nom. (M Ω x km)	Nom. (kg/km)	Nom. (kg/km)
2 x 2 x 0,50	7,90		36,0	1000	70	24,0
4 x 2 x 0,50	9,20		36,0	1000	100	43,20
8 x 2 x 0,50	12,0		36,0	1000	170	81,60
12 x 2 x 0,50	14,50		36,0	1000	240	120,0
16 x 2 x 0,50	16,0		36,0	1000	310	158,40
32 x 2 x 0,50	22,20		36,0	1000	590	312,0

*The values can have small deviations