

LAMPIRAN

N2XSEKFGbY 3 x (25-300) mm² 6/10 kV

Cu / XLPE / CTS / PVC / LS / PVC / SFWA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, Lead Sheathed, Galvanized Steel Flat Wire Armor, PVC Sheathed)

Standard Specification : IEC 60502-2

Construction Data

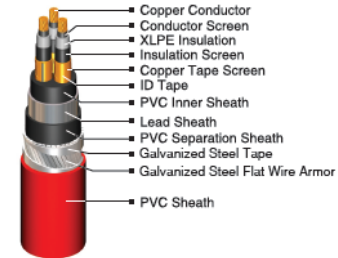
Nom. Cross Section Area	Overall Diameter approx.	Cable Weight approx.
mm ²	mm	kg/km
25	49.0	5,817
35	52.0	6,558
50	55.0	7,451
70	59.5	8,869
95	64.0	10,490
120	68.0	11,990
150	72.0	13,644
185	76.0	15,560
240	82.5	18,581
300	88.0	21,818

Application :

For indoor, outdoor, in ground and in duct. Mainly on chemical industries, refineries, petrol stations and any other locations where there is a risk that solvent, fuel and other chemicals may penetrate and high pulling stresses may occur during installation.

Special Features on Request

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen



Note :

Conductor Shape

25 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

25 - 300 sqmm will be supplied in wooden drum on available length

Length Tolerance per drum $\pm 2\%$

Electrical Data

Nom. Cross Sect. (mm ²)	Conductor		Inductance (mH/km)	Current - Carrying Capacity at 30° C *		Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
25	0.727	0.927	0.395	157	144	3.58	1.03
35	0.524	0.668	0.374	189	172	5.01	1.03
50	0.387	0.494	0.359	224	203	7.15	1.03
70	0.268	0.342	0.338	277	247	10.01	1.03
95	0.193	0.247	0.324	334	294	13.59	1.03
120	0.153	0.196	0.312	381	333	17.16	1.03
150	0.124	0.159	0.302	429	371	21.45	1.37
185	0.0991	0.128	0.294	486	415	26.46	1.37
240	0.0754	0.098	0.283	564	475	34.32	1.37
300	0.0601	0.080	0.275	634	528	42.90	1.37

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

KMI
Wire and Cable

kabelmetal
INDONESIA

SMK3
PENGAKREDITAN
ISO 9001
QUALITY ASSURED FIRM

ISO 14001
ENVIRONMENTAL SYSTEM
OHSAS 18001
HEALTH & SAFETY MANAGEMENT SYSTEM

www.kmi.co.id

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Tentukan :

- KHA penghantar sirkit cabang;
- Setelan proteksi hubung pendek sirkit cabang;
- Setelan proteksi saluran utama dari hubung pendek bila sirkit cabang itu disuplai oleh satu saluran utama yang juga menyuplai motor rotor lilit dengan arus pengenal beban penuh 68 A.

PENYELESAIAN (lihat Gambar 5.5-2) :

- Menurut 5.5.3.2 KHA tidak boleh kurang dari $42 A + 54 A + 1,25 \times 68 A = 181 A$;
- Menurut 5.5.6.1, setelan maksimum gawai proteksi masing-masing motor adalah sebagai berikut:
 - motor sangkar : $250 \% \times 42 A = 105 A$
 - motor serempak: $200 \% \times 54 A = 108 A$
 - motor rotor lilit : $150 \% \times 68 A = 102 A$

Menurut 5.5.4.3 setelan maksimum gawai proteksi sirkit cabang terhadap hubung pendek tidak boleh melebihi : $108 A + 42 A + 68 A = 218 A$

- Setelan maksimum gawai proteksi hubung pendek masing-masing sirkit cabang adalah 218 A dan $150 \% \times 68 A$.

Setelan gawai proteksi hubung pendek saluran utama tidak boleh melebihi $218 A + 68 A = 286 A$.

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