

TYPICAL CABLE TRENCH SECTION FOR PV-GENERATOR

Key trench in top view

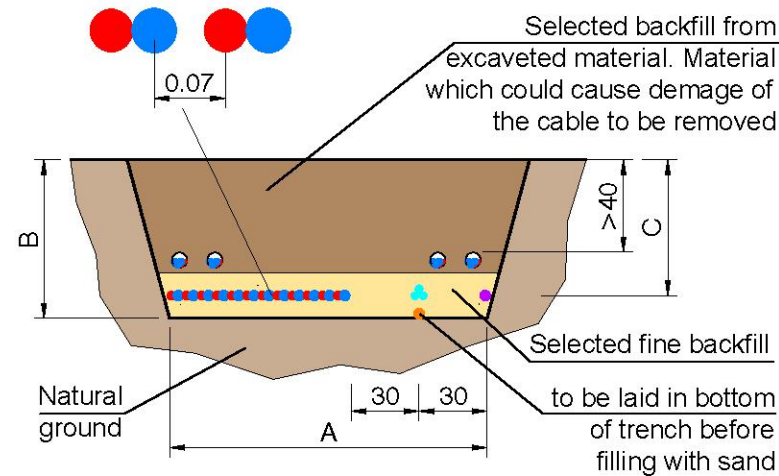
width x depth

Typical cable bundles

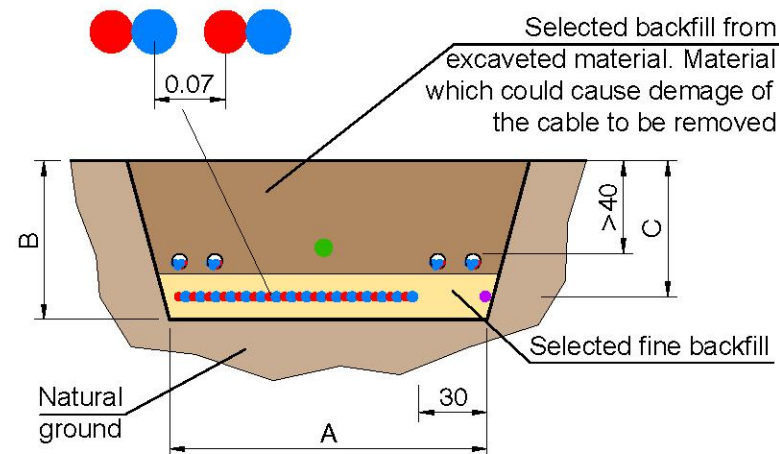
Typical sections through trench
all dimensions in cm

	200 x B	DC + HV + TC + earthing Up to 20 PV-Solar-cables
	160 x B	DC + HV + TC + earthing Up to 14 PV-Solar-cables
	140 x B	DC + HV + TC + earthing Up to 12 PV-Solar-cables
	120 x B	DC + HV + TC + earthing Up to 8 PV-Solar-cables
	100 x B	DC + HV + TC + earthing Up to 6 PV-Solar-cables
	80 x B	DC + TC + earthing Up to 8 PV-Solar-cables
	60 x B	HV + TC + earthing
	40 x B	DC + TC + earthing Up to 2 PV-Solar-cables

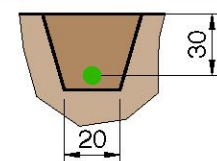
DC string+ DC + HV + TC + earthing



DC string+ DC + TC + equipotential bonding



Equipotential bonding



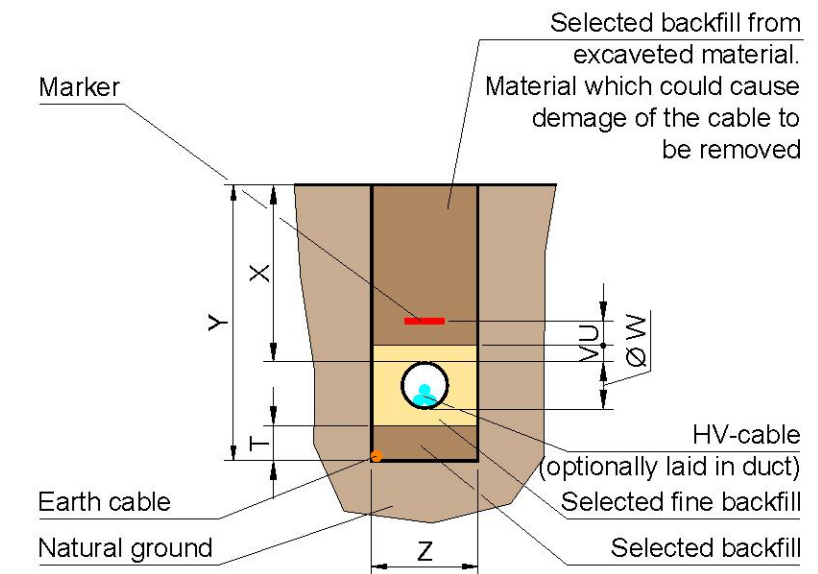
20 x B Equipotential bonding

Not to scale

TYPICAL CABLE TRENCH SECTION FOR EXTERNAL HV-CABLE

(from Substation to POC)

Verge cable trench



Verge cable trench for external HV-cable

Dimension	Description	Unit	Value
Z	Width of cable trench	[cm]	45
Y	Depth of cable trench	[cm]	110
X	Installation depth (duct / top edge of cable)	[cm]	75
W	Diameter of the duct	[cm]	15 - 20
V	Coverage above the duct	[cm]	8
U	Distance fine backfill - marker	[cm]	8
T	Thickness of lower backfill layer	[cm]	15

Key cable trenches

-  DC string cables (in pipe)
-  DC main cables
-  Earthing (Cu)
-  Equipotenital Bonding (galvanized Steel)
-  HV Cable
-  Telecommunication (TC)

Cable trench for PV-Generator

Dimension	Description	Unit	Value
A	Width of cable trench	[cm]	20 - 140
B	Depth of cable trench	[cm]	60
C	Installation depth of the cables	[cm]	50

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