

CMGT 235 – Electrical and Mechanical Systems

Homework #26

Due: 11/29/2022

Points: 20

Show all work. Use NEC 2017 – Chapter 9 and Annex C

Name: _____

1. What trade size PVC Schedule 40 raceway is required for 4 #4/0 and 1 #4 G THHN service entrance conductors?

QTY	Gage	Type	Cross-Section Area (E Wire)	Total Cross- Section Area
Total Cross-Section Area for all wires				
Required Trade Size PVC SCHED 40 Raceway				

2. What trade size EMT raceway is required for 3 #350 phase conductor, 1 #350 neutral conductor, and 1 #1 THHN equipment ground?

QTY	Gage	Type	Cross-Section Area (E Wire)	Total Cross- Section Area
Total Cross-Section Area for all wires				
Required Trade Size EMT Raceway				

3. What trade size PVC SCHEDULE 80 raceway is required for 3 #500 THHN phase conductors and 1 #500 neutral conductor?

4. How many #6 THHN conductors can be installed in a trade size 3/4 RMC?