

RT00

1631Z

13-09-1984

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ADD ADS SM SE SMT SMT2 SMO CH CHR AGR...18/3/33 SBOM ADA
VZCZCRKA096DAR123

PP

DE #3076 257111Z

ZNY MMNSH

P 131112Z SEP 84

FM GCHQ

TO DSD

INFO AUSLO

/SBOM

ZEM

~~CONFIDENTIAL COMINT CHANNELS~~

MARSIK 400 HZ POWER DISTRIBUTION

YOUR REF: STE-0022-84

1. APOLOGIES FOR THE DELAY IN REPLYING TO REF CAUSED BY CHANGE OF HOLDER OF BOTH POSTS.
2. A LOW LOSS CABLE MANUFACTURED BY PIRELLI BY SPECIAL ORDER FROM CRAY IS AVAILABLE FROM CRAY. IT IS MANUFACTURED TO BS6346, AND THE CABLE NUMBER IS PZ1161. THE CONDUCTOR X SECTION IS 35 MILLIMETRE SQUARED, THE OVERALL CABLE DIAMETRE IS 46 MILLIMETRE. I AM UNABLE TO PROVIDE AN APPROXIMATE COST AT THE MOMENT. IT IS CONSTRUCTED AS A 7 CORE CONCENTRIC CABLE WITH 2 CORES PER PHASE AND ONE CORE FOR NEUTRAL, LAID UP WITH NEUTRAL CORE IN CENTRE AND 2 CONDUCTORS PER PHASE DIAMMETRICALLY OPPOSITE. IT IS PVC INSULATED AND HAS STEEL WIRE ARMOUR.
3. A VERY SIMILAR CABLE IS USED BY ANTON PILLER.
4. I UNDERSTAND THAT YOU ARE IN DIRECT CONTACT WITH CRAY (UK). THEY CAN PROVIDE YOU WITH A PRICE AND A FULL SPECIFICATION FOR THE CABLE PZ1161. THEIR PHYSICAL PLANNING EXPERTS ARE AND WHO CAN ADVISE YOU ON YOUR INSTALLATION.
5. THE VOLTAGE DROP IN THE CABLE IS A FUNCTION OF THE LOAD AND THIS IS NOT SPECIFIED IN YOUR SIGNAL. HOWEVER ADVISES ME THAT WITH ONE PZ1161 CABLE OVER 50 METRES WITH A 70 KW LOAD THE DROP WILL BE APPROXIMATELY 4 PERCENT.

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6. YOU DO NOT DETAIL YOUR PHYSICAL CONSTRAINTS BUT IF THIS IS AN ACCESS PROBLEM I AM TOLD THAT CRAY (UK) HAVE STUDIED THE PROBLEM OF GETTING KATO GENERATORS THROUGH RESTRICTED ACCESS BY DISMANTLING INTO SMALLER SECTIONS.

7. LET ME KNOW IF I CAN BE OF ANY FURTHER ASSISTANCE.

REGARDS

#3076
NNNN