CABLING FACTORS

of Conductors

Total	Outside	Fl .	F2	F3	F4	F5
Twin			.107	.250	779-	
2	8	2.000	.785	.667		
3		2.155	.417	.483	.0403	.155
4		. 2.414	.305	.414	.215	.414
5		- 2.701	.252	.378	.542	.701
6 7	6	3.000	.221	.354	1.027	1.000
7	6	3.000	.221	.354		
8 9	7	3.305	.201	.339		
9	8	3.613	.187	.327		
10	8	4.000	.284	.410		
12	9	4.155	.227	.361		
14	10	4.414	.202	.340		
16	11	4.701	.188	.328		
19	12	5.000	.178	.319		•
20	13	5.305	.170	.312		
24	14	6.000	.215	.354		
27	15	6.155	.187	.328		
30	16	6.414	.175	.317		
33	17	6.701	.168	.310		
37	18	7.000	.162	.305		
61	24	9.000	.241			
	n in march	and selection			3994	

le Dismeter

d = Diameter of Conductor

Fl x d = Cable OD

 $F2 \times d^2 = Area of Outside Interstice$

F3 x d = Diameter That Will Fit in Outside Interstice

 $F4 \times d^2 = Area of Center Interstice$

F5 x d = Diameter That Will Fit in Center Interstice

Number of conductors in cable	Maximum length of lay	
2	30 x single conductor diameter	
3	35 x single conductor diameter	
4:	40 x single conductor diameter	
5 or more	15 x cable core diameter	

CALCULATING CIRCULAR MILL AREA OF STRAND IN MILS

DIAMETER OF INDIVIDUAL WIRES MOVE DECIMAL THREE PLACES TO RIGHT EXAMPLE: .1055" ----> 105.5

SQUARE THE INDIVIDUAL WIRE AND MULTIPLY BY NUMBER OF WIRES

EXAMPLE: 105.5 SQUARED X 19W = 211475 CMA

11	
	\$/LB X SG
	- pound Volume
	COST

Conversion	$\underline{\mathbf{N}}$	Multiply By		
MPa	to	PSI	145	
kN/m	to	Lbs / inch	5.71	
N/mm^2 (divide by	to square in	PSI ches for actual v	145 weight)	