## Cable Design Equations-Braid Shield



## BRAID ANGLE:

$\theta=\tan ^{-1}\left(\frac{2 \pi(\mathrm{D}-+-2 e) \mathrm{P}}{\mathrm{C}}\right)$, DEGREES

## BRAID SHIELD WEIGHT:

$W=\frac{(n)(C)(I)}{\cos \theta}, L B S / M ~ F T$

## BRAID PICKS PER INCH:

$$
\mathrm{P}=\frac{(\mathrm{C})(\tan \theta)}{2 \Pi(\mathrm{M})}, \mathrm{PICKS} / \mathrm{INCH}
$$

BRAID SHIELD DC RESISTANCE:

$$
\mathrm{R}_{\mathrm{dc}}=\cos \frac{r_{\mathrm{dc}}}{(\mathrm{n})(\mathrm{C})(\cos \theta)}, \Omega / \mathrm{kft}
$$

\% Coverage: \%C=(2F-F2)x-100

| \% Coverage Factor <br> for Common Coverage: |  |
| :---: | :---: |
| F | \% Coverage |
| 0.368 | 60 |
| 0.409 | 65 |
| 0.453 | 70 |
| 0.500 | 75 |
| 0.553 | 80 |
| 0.617 | 85 |



## TGeneral Cable

