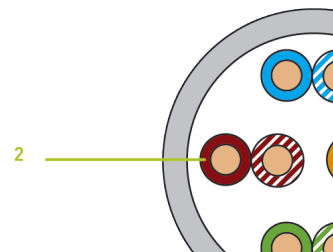


## REF : VGBxSH

100  $\Omega$  U/UTP x pairs category 5e cable – 100 MHz- LSZH sheath



1. **Conductor:** Solid bare copper AWG24
2. **Insulation:** Polyethylene
3. **Outer sheath:** LSZH – Grey RAL 7035



## Application

U/UTP (Unshielded twisted pairs) cable for use as horizontal or vertical configuration (Backbone), it constitutes the base of a high bit rate V.D.I (Voice-Data-Image) network.

This cable supports all the applications of the current network standards IEEE802.3, IEEE802.5 & IEEE802.12. (Ethernet, Token Ring, TP-PMD). It is also suitable for ATM 622 Mps applications.

## Standards

|               |                                |
|---------------|--------------------------------|
| <b>CABLE</b>  | IEC 61156-5                    |
| <b>SYSTEM</b> | ISO 11801 Edition 2 – CLASSE D |

## Electrical properties

|                                                                     |
|---------------------------------------------------------------------|
| Elect. linear resistance : 94 $\Omega$ / Km                         |
| Mutual capacity (nom.) : 50 pF / m                                  |
| Characteristic impedance<br>from 1 to 100 MHz : 100 +/- 15 $\Omega$ |
| Velocity of propagation : 66 %                                      |

## Mechanical characteristics

|                                            |
|--------------------------------------------|
| Flame retardant: IEC 60332-1               |
| Operating temperature : - 20° C / + 70° C  |
| Minimum bending radius: 8 x cable diameter |
| Conform to RoHS directive                  |



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### Performances de transmission @ 20°C

| Freq.<br>(MHZ) | ATTENUATION<br>(dB/100m) |             | NEXT<br>(dB) |           | PS NEXT<br>(dB) |           | ELFLEX<br>(dB) |           | PSELFLEX<br>(dB) |           | RETURN LOSS<br>(dB) |           |
|----------------|--------------------------|-------------|--------------|-----------|-----------------|-----------|----------------|-----------|------------------|-----------|---------------------|-----------|
|                | Standard                 | M.M.C       | Standard     | M.M.C     | Standard        | M.M.C     | Standard       | M.M.C     | Standard         | M.M.C     | Standard            | M.M.C     |
| 4              | 4.08                     | <b>4.0</b>  | 56.3         | <b>62</b> | 53.3            | <b>59</b> | 52             | <b>63</b> | 49               | <b>60</b> | 23                  | <b>37</b> |
| 10             | 6.5                      | <b>6.2</b>  | 50.3         | <b>60</b> | 47.3            | <b>57</b> | 44             | <b>60</b> | 41               | <b>57</b> | 25                  | <b>38</b> |
| 16             | 8.3                      | <b>8.1</b>  | 47.2         | <b>56</b> | 44.2            | <b>53</b> | 40             | <b>57</b> | 37               | <b>54</b> | 25                  | <b>38</b> |
| 25             | 10.4                     | <b>10.2</b> | 44.3         | <b>54</b> | 41.3            | <b>51</b> | 36             | <b>53</b> | 33               | <b>50</b> | 24.3                | <b>75</b> |
| 31.25          | 11.7                     | <b>11.5</b> | 42.9         | <b>50</b> | 39.9            | <b>47</b> | 34.1           | <b>48</b> | 31.1             | <b>45</b> | 23.6                | <b>35</b> |
| 62.5           | 17                       | <b>16.8</b> | 38.4         | <b>47</b> | 35.4            | <b>43</b> | 28.1           | <b>39</b> | 25.1             | <b>36</b> | 21.5                | <b>34</b> |
| 100            | 22                       | <b>21.7</b> | 35.3         | <b>40</b> | 32.3            | <b>37</b> | 24             | <b>35</b> | 21               | <b>32</b> | 20.1                | <b>32</b> |

Standard: Values according to IEC 61156 \_5<sup>SEP</sup>

### Ordering information

| References            | VGB 4SH                     | VGB 8SH      |
|-----------------------|-----------------------------|--------------|
| Pairs                 | 4                           | 2x4          |
| AWG                   | 24                          | 24           |
| Nominal Diameter (mm) | 5.4                         | 5.4 x 11.5   |
| Weight Kg/Km          | 33                          | 68           |
| Packaging             | 100m - 305m<br>500m - 1000m | 500m - 1000m |